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OF THE

UNITED STATES

EXHIBIT

U. S. Commission to the Paris exposition, 1889.

PARIS UNIVERSAL EXPOSITION

1889

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OFFICIAL CATALOGUE

OF THE

UNITED STATES

EXHIBIT

PARIS

PRINTED BY CHARLES NOBLET ET FILS

13, RUE CUJAS, 13

1889

JOINT RESOLUTION

Accepting the invitation of the French Republic to take part in an international exposition to be held in Paris in eighteen hundred and eighty-nine.

Whereas, The United States have been invited by the Republic of France to take part in an exposition of works of art and the products of manufactures and agriculture of all nations, to be held in Paris, commencing the fifth day of May and closing the thirty-first day of October eighteen hundred and eighty-nine : Therefore.

Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That said invitation is accepted, and that the governors of the several States and Territories be and are hereby requested to invite the people of their respective States and Territories to assist in the proper representation of the productions of our industry and of the natural resources of the country, and to take such further measures as may be necessary in order to secure to their respectives States and Territories the advantages to be derived from this beneficent undertaking.

SEC. 2. That the President, by and with the advice and consent of the Senate, shall appoint a commissioner-general to represent the United States in the proposed

exposition, and under the general direction of the Secretary of State, to make all needful rules and regulations in reference to the contributions from this country, and to control the expenditures incident to the proper installation and exhibit thereof; the pay of jurors, and the preparation of the reports on the exposition, and the general results thereof; and an assistant commissioner-general to act under the direction of the commissioner-general, who shall perform the duties of commissioner-general, in case of his death or disability; and that the President may also appoint as assistants to the commissioner-general nine scientific experts, corresponding to and specifically assigned to the nine groups into which the exposition will, under the official regulations, be divided; that the allowance to said commissioner-general for salary and personal expenses shall not exceed ten thousand dollars for his whole term of office; that the allowance of said assistant commissionner-general for salary and personal expenses shall not exceed five thousand dollars for his term of office, and the allowance of the nine scientific experts for salary and personal expenses shall not exceed fifteen hundred dollars each, not including such clerical service as may be allowed by the commissioner-general, which shall not exceed fifteeen thousand dollars.

SEC. 3. That in order to defray the necessary expenses above authorized, and for the proper installation of the exhibition, and the expenditures of the commissioner-general made under the direction of the Secretary of State, and with his approval, and not otherwise, there be, and hereby is appropriated, out of any money in the Treasury of the United States not otherwise appropriated, the sum of two hundred and fifty thousand dollars, or so much thereof as may be necessary for the purposes herein specified, which sum shall be expended under the direction of the Secretary of State; the Commissioner of Agriculture is hereby authorized to collect and prepare suitable spec

imens of the agricultural productions of the several States and Territories of the Union for exhibition at the Paris exposition and accompany the same with a report respecting such productions, to be printed in the English, French and German languages, the expense of the same to be paid out of said appropriation.

SEC. 4. That it shall be the duty of the Secretary of State to transmit to Congress a detailed statement of the expenditures which may have been incurred under the provisions of this resolution, together with all reports called for under section two of this resolution, which reports shall be prepared and arranged with a view to concise statement and convenient reference.

Approved, May 10, 1888.

UNITED STATES COMMISSION

COMMISSIONER-GENERAL *

WILLIAM B. FRANKLIN, Hartford, Conn.

ASSISTANT COMMISSIONER-GENERAL *

SOMERVILLE PINKNEY TUCK, New York City.

Lieutenant BENJAMIN H. BUCKINGHAM, U. S. N., aide-de-camp, Naval Commissioner.

Captain DAVID A. LYLE, Ordnance Dep't U. S. A., aide-de-camp, Military Commissioner.

Captain HENRY CLAY COCHRANE, U. S. Marine Corps, Commanding Detachment of Marines.

Lieutenant PAUL ST. CLAIR MURPHY, U. S. Marine Corps.

* Appointed by the President and confirmed by the Senate.

Scientific Experts appointed by the President as Assistants to the Commissioner-General, corresponding to and assigned to the Nine Groups into which the Exposition is divided.

GROUP I

RUSH C. HAWKINS, New York City.

GROUP II

ARTHUR J. STACE, Notre Dame, Indiana.

GROUP III

DAVID URQUHART, JR., Helena, Montana.

GROUP IV

WILLIAM H. CHANDLER, Bethlehem, Pennsylvania.

GROUP V

SPENCER B. NEWBURY, Ithaca, New York.

GROUP VI

CHARLES B. RICHARDS, New Haven, Connecticut.

GROUP VII

A. HOWARD CLARK, Boston, Massachusetts.

GROUP VIII

CHARLES V. RILEY, Washington, District of Columbia.

GROUP IX

DAVID KING, Newport, Rhode Island.

Chief Engineer

WILLAM C. GUNNELL.

Secretary

A. BAILLY-BLANCHARD.

Assistant Engineer

B. ABDANK.

SUPERINTENDENTS OF DIVISIONS

Fine Arts : J. H. THIERIOT. Group I.

Education ; C. WELLMAN PARKS. Group II.

Industrial : W. L. BAILIE. Groups III, IV and V.

Machinery : T. R. PICKERING. Group VI.

Agriculture : F. T. BICKFORD. Groups VII, VIII and IX.

Electricity : CARL HERING.

Minerals : GEORGE F. KUNZ.

UNITED STATES JURORS

NOMINATED BY THE COMMISSIONER-GENERAL

GROUP	1.	RUSH C. HAWKINS.
—		W. T. DANNAT.
—		CHARLES S. PEARCE.
—		JULIUS L STEWART.

CLASS	7.	WALTER A. DONALDSON
—	9.	THEODORE STANTON.
—	12.	CHAS. S. HASTINGS.
—	13.	A. G. DICKINSON.
—	14.	A. S. CLARK.
—	15.	A. L. ROTCH.
—	17.	HILLYARD LEE.
—	19.	CHARLES COLNÉ.
—	20.	ANTHONY POLLOK.
—	24.	JACQUES SCHIEB.
—	27.	LAZARD KAHN.
—	29.	MAX HELLMAN.
—	35.	A. VAN BERGEN.
—	36.	JAMES RUMRILL.
—	37.	EMILE LEVY.
—	38.	Lieut. AARON WARD, U. S. N.
—	41.	W. H. CHANDLER.
—	44.	C. N. HALDEMAN.
—	45.	S. B. NEWBURY.
—	47.	A. H. REITLINGER.
—	48.	HENRY M. HOWE.
—	49.	W. S. WARD.
—	50.	A. H. CLARK.

Class 52. R. H. Thurston.—Charles B. Richards.
— 53. Charles R. Goodwin.
— 56. S. N. Gotendorf.
— 57. E. W. Serrél, Jr.
— 58. Thos. J. Sloane.
— 59. C. S. Ward.
— 60. Thomas W. Evans.
— 61. H. B. Plant.
— 62. Carl Hering, B. Abdank.
— 63. A. G. Wilkinson.
— 64. Geo. F. Waring, Jr.
— 69. James Cheesman.
— 73. C. Mc K. Loeser.
— 74. Captain D. A. Lyle, U. S. A.

SUPPLEMENTAL JURORS

Group 1. Paul W. Bartlett.
— Henry S. Bisbing.

Class 10. H. G. Rogers.
— 16. George W. Hayes.
— 18. Wm. E. Ingersoll.
— 22. Irving C. Rosse.
— 28. William Herrick.
— 30. Max Wasserman.
— 39. D. W. Seligman.
— 42. David Cahn.
— 46. J. M. Craft.
— 51. W. W. Evans.
— 70. Alfred Schweizer.
— 72. A. Bailly-Blanchard.
— 73 *bis*. C. Richards Dodge.
— 75. John F. Darr.

UNIVERSAL EXPOSITION

OF 1889, AT PARIS

GENERAL CLASSIFICATION

—

FIRST GROUP.

WORKS OF ART.

CLASS 1.—*Oil paintings.*

Paintings on canvas, panels and various grounds.

CLASS 2.—*Paintings of different kinds and drawings.*

Miniatures; paintings in water-colors; pastel and drawings of all kinds; paintings on enamel, earthenware and porcelain; cartoons for stained glass windows and frescoes.

CLASS 3.—*Sculpture and engravings on medals.*

Statuery, bas-relief, repoussé work and chiseled work. Medals cameos, engraved stones. Inlaid enamel work.

CLASS 4.—*Architectural drawings and models.*

Studies and fragments. Representations and plans of buildings. Restorations from ruins or documents.

CLASS 5.—*Engravings and lithographs.*

Engravings in black; polychromatic engravings. Lithographs in black, in chalk and with brush; chromo-lithography.

SECOND GROUP.

EDUCATION AND INSTRUCTION — APPARATUS AND PROCESSES USED IN THE LIBERAL ARTS.

CLASS 6. — *Education of young children. Primary instruction. Instruction of adults.*

Plans and models of infant asylums, infant schools, orphan asylums, rooms for the care of children and kindergardens; arrangement and furniture of such establishments; appliances for instruction, adapted to promote the physical, moral and intellectual development of the child until the age when he enters school.

Plans and models of city and country school houses; arrangement and furniture of such establishments. School articles, books, maps, apparatus, models, etc.

Plans and models of schools for adults, and for industrial training; arrangement and furniture in such establishments. Articles used in the instruction of adults and in industrial training.

Articles used in elementary instruction in its various branches.

Articles for elementary instruction in geometrical and free-hand drawing.

Articles for the instruction of the blind, and of deaf mutes.

Articles made by pupils of both sexes.

Libraries and publications.

CLASS 7.—*Organisation and appliances for secondary instruction.*

Plans and models of establishments for secondary instruction; lyceums for boys and girls, gymnasiums, colleges, industrial and commercial schools. Arrangement and furniture of such establishments.

Collections, classical books, maps and globes. Articles used in technological and scientific instruction, for instruction in the arts, in drawing, music and singing.

Apparatus and methods used in teaching gymnastics, fencing and military exercises.

CLASS 8.—*Organisation, methods and appliances for higher instruction.*

Plans and models of academies, universities, medical schools, practical schools, technical and industrial schools, agricultural schools, observatories, scientific museums, amphitheatres, labaratories for teaching and experimenting.

Furniture and arrangements of such establishments.

Apparatus, collections and appliances used in higher instruction and in scientific research.

Special exhibitions of learned, technical, agricultural, commercial and industrial institutions and societies.
Scientific expeditions.

CLASS 9.—*Printing and books.*

Specimens of typography; autographic proofs; lithographic proofs, black or colored; proofs of engravings.
New books and new editions of books already known; collections of works forming special libraries; periodical publications.
Drawings, atlases and albums.
Musical publications.

CLASS 10.—*Stationery, bookbinding and articles used in painting and drawing.*

Paper, cards and pasteboards; inks, chalks, pencils, pastels, office furniture and supplies, inkstands, letter scales, etc., and copying-presses.
Articles made of paper, such as shades, lanterns, flower-pot covers, etc.
Record books, copy-books, albums and note-books; bindings, movable bindings, cases, etc.
Various articles for washes and water-colors; paints in cakes, pastilles, bladders, tubes and shells. Instruments and apparatus for use of painters, draughtsmen and modelers.

CLASS 11.—*Ordinary application of the arts of drawing and modeling.*

Industrial designs; designs obtained, reproduced or reduced by mechanical processes. Decorative paintings, lithographs, chromolithographs or engravings to be used in industries Patterns and models for figures, ornaments, etc.
Molded, stamped, chiselled and carved articles. Cameos, seals and various articles decorated by means of engraving. Industrial decorative plastic goods made by mechanical process; reductions, etc.
Coins and medals.

CLASS 12.—*Photographic proofs and apparatus.*

Photographs on paper, glass, wood, textile fabrics, enamel, etc. Heliographic engravings, lithographic proofs, photo-lithographic proofs, photographic negatives, stereoscopic proofs and stereoscopes. Enlarged proofs. Photochromy.
Instruments, apparatus and raw material used in photography. Articles used in photographers' studios.

CLASS 13.—*Musical instruments.*

Non-metallic wind instruments with simple mouth-pieces, with reeds or pipes, with or without air-reservoirs.

Metallic wind instruments, simple, with extensions, with slides, with pistons, with keys and with reeds.

Wind instruments with key-boards; organs, accordions, etc.

String instruments, played with the fingers or with a bow, without key-boards.

Stringed instruments with key-boards; pianos, etc.

Instruments played by means of beating or friction.

Automatic instruments; hand organs and bird organs.

Separate parts of musical instruments and orchestral appliances.

Strings for musical instruments.

CLASS 14.—*Medicine and surgery. Veterinary and comparative medicine.*

Appliances, instruments and apparatus used in anatomical, histological and bacteriological work.

Normal and pathological anatomical specimens; histological and bacterioscopical preparations.

Instruments for medical examinations, both general and special.

Apparatus and instruments used in general, local and special surgery.

Apparatus used in dressing wounds.

Apparatus used in plastic and mechanical prothesis; orthopedic apparatus; apparatus used in hernial surgery; bath and hydrotherapeutic apparatus; apparatus for medical gymnastics; appliances, instruments and apparatus used in special therapeutics.

Instruments used in the practice of dental surgery.

Miscellaneous apparatus for the use of the infirm, sick and insane.

Accessory articles used in the medical, surgical and pharmaceutical service of hospitals and infirmaries.

Cases and chests of instruments and medicines for the use of army and navy surgeons. Articles for use in succoring the wounded on battle-fields.

Apparatus for the relief of the drowned and the asphyxiated.

Special appliances, instruments and apparatus used by veterinary surgeons.

CLASS 15.—*Instruments of precision.*

Philosophical apparatus and instruments.

Apparatus and instruments used in practical geometry, surveying, topography, and geodesy; drawing compasses; calculating machines; levels; compasses; barometers, etc.

Measuring apparatus and instruments; verniers, micrometer screws, dividing machines, etc.; scales for scientific uses.

Ordinary optical instruments. Astronomical instruments. Physical and meteorological instruments, etc. Instruments and apparatus used in laboratories and observatories.

Measures and weights of different countries.

Class 16.—*Geographical and cosmographical maps and apparatus. Topography.*

Geographical, geological, hydrographic and astronomical maps and atlases.

Physical maps of all kinds. Plain or raised topographical maps.

Terrestrial and celestial globes and spheres. Statistical works and tables. Tables and ephemerides for the use of astronomers, and navigators.

THIRD GROUP.

FURNITURE AND ACCESSORIES.

Class 17.—*Cheap and fine furniture.*

Side-boards, book-cases, tables, toilet-tables, bedsteads, sofas chairs, billiard-tables, etc.

Class 18.—*Upholsterers' and decorators' work.*

Bed furniture, upholstered chairs, canopies, curtains, tapestry and other hangings.

Articles for decorating and furnishing. Molded pulp, and decorative articles of plaster, statuary, pasteboard, papier-mâché, etc. Frames. Paintings and decorations for churches.

Ornamental mantel-pieces.

Class 19.—*Crystal, glass and stained glass.*

Crystal glass vases and goblets; cut, double and mounted crystal glass, etc. Ordinary vases and goblets. Common glass-ware and bottles.

Glass for windows and mirrors. Highly finished, enameled crackled, filigreed and tempered glass, etc.

Glasses and crystals for optical purposes; articles for ornament, etc.

Stained glass for windows. Mirrors, looking-glasses, etc.

Class. 20.—*Ceramics.*

Biscuit ware, hard and soft paste porcelain.

Fine earthenware with colored glazing, etc. Earthenware biscuit. Terra cotta. Enameled lava. Bricks and tiles. Ceramic stoneware.

Industrial mosaics and enamels.

Class 21.—*Carpets, tapestry and other fabrics used in house-furnishing.*

Carpets, moquettes and tapestry, of rough or velvety surface. Carpets of felt, mats, etc. India rubber floor cloths, etc.

Fabrics used in furnishing, such as cotton, wool or silk, plain or figured. Fabrics of horse-hair, vegetable, leathers, moleskin, etc. Leather used for hangings and furniture. Oil-cloths and linoleums.

CLASS 22.—*Decorated papers.*

Printed papers. Paper with velvety surface, marbled, veined, etc. Paper for covers, for binding, etc. Artistic papers. Enameled and varnished papers. Imitations of wood and leather. Painted or printed shades.

CLASS 23.—*Cutlery.*

Knives, penknives, scissors, razors, etc. Various articles of cutlery.

CLASS 24.—*Goldsmiths' and silversmiths' work.*

Church plate; decorative and table plate; articles of gold and silver for the toilet, for office use, etc.

CLASS 25.—*Art bronzes and castings. Artistic iron-work and repoussé metal-work.*

Statues and bas-reliefs in bronze, cast iron, zinc, etc. Castings with metallic coatings.

Repoussé work in copper, lead, zinc, etc.

CLASS 26.—*Watches and clocks.*

Separate parts, large or small, of clocks and watches.

Watches, chronometers, pedometers, various reckoners, etc. Mantel and other clocks; regulators and metronomes.

Astronomical clocks, marine chronometers; travelling clocks. Alarm clocks, etc. Water clocks and hour-glasses.

CLASS 27.—*Apparatus and processes for heating. Apparatus and processes for lighting otherwise than by electricity.*

Fire-grates, fire-places, stoves and furnaces. Accessory appliances in heating houses. Kitchen ranges and apparatus for heating and cooking with gas.

Apparatus for heating by the circulation of hot water, steam, and heated air.

Lamps for lighting by means of various oils and essences.

Accessory articles for lighting. Matches.

Apparatus and accessory appliances for lighting by gas.

Apparatus for lighting by means of magnesium, etc.

CLASS 28.—*Perfumery.*

Cosmetics and pomatums. Perfumed oils; extracts and scented waters; aromatic vinegars; almond pastes; powders, pastilles and scent bags; perfumes for burning; toilet soaps.

Raw materials for perfumery.

CLASS 29.—*Leather work. Fancy wooden articles. Baskets and brushes.*

Dressing cases and small fancy articles of furniture; liqueur-cases and glove-boxes. Caskets. Cases and bags, jewel-boxes. Purses, pocketbooks, note-books and cigar-cases.

Turned, lathe-worked, carved and engraved articles of wood, ivory, shell, etc.; tobacco boxes; pipes.

Fine combs; fine toilet brushes.

Miscellaneous lacquer articles.

Baskets and fancy baskets; wicker-work articles and fine straw goods.

Coarse brushes; feather dusters.

Paint brushes.

FOURTH GROUP.

TEXTILE FABRICS, WEARING APPAREL AND ACCESSORIES.

CLASS 30.—*Cotton thread and fabrics.*

Prepared and spun cotton.

Pure cotton fabrics, plain or figured.

Fabrics of mixed cotton.

Cotton velvet.

Cotton ribbons.

Bed clothes.

CLASS 31.—*Thread and fabrics of hemp, flax, etc.*

Flax, hemp and other spun vegetable fibres.

Linen and drills. Cambric. Linen fabrics, mixed with cotton or silk.

Fabrics of vegetable fibres, other than those of cotton, flax and hemp.

CLASS 32.—*Threads and fabrics of combed wool. Threads and fabrics of carded wool.*

Combed wool; woolen yarn.

Muslins, Scotch cassimeres, merinos, serges, etc.

Woolen ribbons and laces mixed with cotton, thread, with silk or floss silk. Fabrics of hair, pure or mixed.

Woolen shawls, pure or mixed.

Cashmere shawls.

Carded wool: worsted yarn.

Cloths and other fabrics of carded wool.

Blankets. Felt of wool or hair, for carpets and hats.

Woolen foot-wear.

Fabrics of carded wool, unfulled or slightly fulled, such as flannels, tartans, swansdown, etc

CLASS 33.—*Silks and silk fabrics.*

Raw and thrown silks; floss silk yarn.
Fabrics of pure silk, plain, figured and embossed.
Fabrics of silk mixed with gold, silver, cotton, wool, thread, etc.
Fabrics of floss silk, pure or mixed.
Velvets and plushes.
Ribbons of pure or mixed silk.
Shawls of pure or mixed silk.

CLASS 34.—*Laces, net, embroidery and trimmings.*

Laces of thread and cotton, made with the spindle, needle or loom.
Laces of silk, wool or mohair.
Silver and gold lace.
Silk and cotton net, plain or figured.
Embroidering in tambour work, crocheting, etc. Embroidery in gold, silver and silk. Sacerdotal vestments. Embroidery, tapestry and other work done by hand.
Trimmings of silk, floss silk, wool, mohair, sundry kinds of hair, horsehair, thread and cotton; braids, etc.
Fine and imitation lace work and trimmings. Special lace work and trimmings for military equipments.

CLASS 35.—*Articles of hosiery and underclothing. Accessories of wearing apparel.*

Hosiery of cotton, thread, wool and silk cashmere, or of floss silk, pure or mixed. Elastic fabrics; knit goods. Made garments for men, women and children; baby linen. Flannel goods and other woolen garments.
Corsets, cravats, gloves, gaiters, garters, suspenders, buttons, fans, screens, umbrellas, sunshades, canes, etc.

CLASS 36.—*Wearing apparel for both sexes.*

Men's clothes; women's clothes.
Hats and head-wear for both sexes; artificial flowers and feathers.
Wigs and hair-work.
Boots, shoes, etc.
Children's garments.
Special garments for different occupations.
Native costumes of different countries.

CLASS 37.—*Jewelry and precious stones.*

Jewelry in precious metals, carved, filigreed, adorned with precious stones, etc.
Plated and imitation jewelry.

Ornaments of jet, amber, coral, mother-of-pearl, steel, etc.
Diamonds, precious stones, pearls and imitations.

Class 38.—*Portable weapons. Hunting.*

Defensive armor; cuirasses, helmets.
Blunt weapons: clubs, bludgeons, etc.
Sidearms: swords, sabers, bayonets, lances, axes and hunting knives.
Missile weapons: bows, cross-bows, etc.
Firearms; guns, rifles, pistols, revolvers.
Gunsmiths' accessory articles.
Solid or hollow projectiles, explosives. Percussion caps, primers, cartridges.
Hunting equipments; articles used in training dogs.
Articles used in fencing halls.

Class 39.—*Articles for traveling and camp equipage.*

Trunks, valises, saddle-bags, etc. Dressing and traveling cases, Miscellaneous articles. Traveling rugs; cushions; headwear; water-proof garments, shod staffs; grapnel hooks; umbrellas.
Portable articles specially designed for travellers and scientific expeditions; implements and equipments for geologists, mineralogists, naturalists, settlers, pioneers, etc.
Tents and camp equipage. Beds, hammocks, seats, folding-chairs, etc.

Class 40.—*Toys.*

Dolls and toys; wax and other figures.
Games for the amusement of children or adults.
Instructive and scientific toys.

FIFTH GROUP.

EXTRACTIVE ARTS, RAW AND MANUFACTURED PRODUCTS.

Class 41.—*Products of mining and metallurgy.*

Collections and specimens of rocks, minerals and ores. Ornamental rocks. Hard rocks. Refractory substances. Earths and clays. Various mineral products. Raw sulphur. Rock salt, salt from salt springs.
Mineral fuels: various kinds of coal; residua and agglomerates. Asphalts and asphaltic rocks. Bitumen. Mineral tar. Crude petroleum, etc.
Crude metals: cast-iron, wrought-iron, steel, iron having the nature of steel, copper, lead, silver, zinc, etc. Metallic alloys.
Products of the art of washing ashes, refining, precious metals gold-beating, etc.
Products of the working of crude metals; castings, bells, com-

mercial iron; special kinds of iron; sheet-iron and tin; plates for sheeting and constructions, etc.

Sheet iron coated with zinc or lead, etc.; copper, lead and zinc sheets, etc.

Wrought metals : forge-work and other iron-work; wheels and tires; unwelded pipes, chains, etc.

Products of wire-drawing. Needles, pins; wire cables; lattices; wire gauzes; perforated iron.

Harware, edge-tools, ironmongery, copper sheets, sheet-iron work, scrap iron and tinware.

Various wrought metals.

CLASS 42.—*Products of forest growth and forest industries.*

Specimens of forest species.

Wood for working, fuel and building purposes. Timber for ship-building; staves; split woods.

Cork; textile barks. Tanning, dyeing, scenting and resinous substances, etc.

Products of forest industries : dried wood and charcoal; potash in the raw state; articles manufactured by the cooper, the basket-maker, the maker of fine straw goods, wooden shoes, etc.

CLASS 43.—*Products of hunting. Products of fisheries, apparatus and instruments for fishing, and for gathering fruits of natural growth.*

Collections and drawings of land and amphibious animals, birds, eggs, fishes, cetacea, mollusks and crustacea.

Products of hunting : furs and skins, hair, bristles, feathers, down, horns, teeth, ivory, bones, shells, musks, castoreum and similar products.

Products of fisheries : whale-oil, spermaceti, etc.; whalebone, ambergris, mollusk-shells, pearls, mother-of-pearl, sepia, purple, corals, sponges, etc.

Products of fruit growth or of crops obtained without cultivation : mushrooms, truffles, wild fruits, lichens used in dyeing; food and fodder; fermented saps; peruvian bark; useful barks and filaments, wax, resinous gums, raw india rubber, gutta-percha, etc.

Traps and snares : fishing lines and hooks, harpoons, nets, apparatus and bait for fishing.

Apparatus and instruments for gathering products obtained without cultivation.

CLASS 44.—*Agricultural products not used for food.*

Textile materials : raw cotton, flax and hemp, scutched and unscutched; textile vegetable fibres of every kind; raw wool, washed and unwashed; silk-worm cocoons.

Various agricultural products employed in industry, pharmacy, and for domestic purposes; oleaginous plants, oils, wax, resins.

Leaf or manufactured tobacco. Touchwood. Tanning and dyeing substances.

Preserved fodder and substances specially intended for feeding animals.

Class 45.—*Chemical and pharmaceutical products.*

Acids, alkalies, salts of all kinds, sea salts and products resulting from the treatment of mother-waters.

Various products of the chemical industries; wax and fatty substances; soaps and candles; rosins, tars and derivative substances; essences and varnishes; glues and gelatines; printing inks: different coatings, blackings and waxings.

Raw materials used in pharmacy; simple and compound medicines.

Products of the India rubber and gutta-percha industries; dyeing substances and colors.

Products derived from the treatment of mineral matters utilized for lighting. Refined petroleum.

Class 46.—*Chemical methods of bleaching, dyeing, printing and finishing.*

Specimens of threads and stuffs, bleached and dyed. Samples of dyeing preparations.

Specimens of printed or dyed linen and cotton prints, pure or mixed. Specimens of woolen prints, pure or mixed, combed or carded.

Specimens of silk prints, pure or mixed.

Specimens of printed felt or cloth carpet and of oil-cloths.

Class 47.—*Leathers and skins.*

Raw materials used in the preparation of skins and leather.

Raw hides; salted hides. Tanned, curried, dressed or dyed leather. Varnished leather.

Morocco and sheep skins; skins grained, chamoied, tawed, dressed or dyed. Skins prepared for gloves. Parchments.

Articles of gut work; gold-beaters' skins; bulls' sinews, etc.

SIXTH GROUP.

APPARATUS AND PROCESSES OF MECHANICAL INDUSTRIES. ELECTRICITY

Class 48.—*Apparatus and methods of working mines and of metallurgy.*

Apparatus for exploration by borings, for artesian wells and for wells of large sections.

Models, plans and views of the works of mines and quarries. Works for obtaining the flow of mineral waters.

Machines and apparatus used for extracting ores, and for lowering and hoisting workmen in the mine.

Machines for drainage; pumps.
Ventilating apparatus; ventilators.
Safety lamps. Safety apparatus; parachutes; signals.
Apparatus for the mechanical preparation of ores and mineral fuel.
Apparatus for compressing fuel.
Apparatus for carbonizing fuel; metallurgic hearths and furnaces; smoke-consuming apparatus.
Appliances of metallurgic works.
Special appliances for forges and foundries.
Appliances for shops for working metals of all kinds.

CLASS 49.—*Apparatus and methods of farming and forestry.*

Plans for the cultivation, distribution and management of crops.
Appliances and works for agricultural engineering; drainage; sub-soil drainage; irrigation. Plans and models of rural buildings.
Tools, implements, machines and apparatus used for plowing and other workings of the ground in sowing and planting, harvesting, preparing and preserving the products of cultivation.
Various agricultural machines moved by teams or steam.
Appliances for carts and agricultural conveyances.
Movable steam-engines for special purposes and horse-gins.
Fertilizers of organic or mineral origin.
Apparatus for the physical and chemical study of soils.
Plans of methods of replanting, managing and cultivating forests.
Apparatus used in forest work and forest industries.

CLASS 50.—*Apparatus and methods used in agricultural work and food industries.*

Appliances for agricultural work; manufactories of artificial fertilizers, of drainage pipes, flour mills, farina mills, starch mills, oil mills, breweries, distilleries, sugar works, refineries, workshops for the preparation of textile materials, silk-worm nurseries, etc.
Appliances for the manufacture of alimentary products; kneading machines and mechanical ovens for bakers; pastry and confectionery utensils.
Apparatus for the manufactures of doughs for food, sea-biscuit, etc. Machines for making chocolate. Apparatus for roasting coffee.
Preparation of ices and sherbets; manufacture and preservation of ice.

CLASS 51.—*Apparatus used in chemistry, pharmacy and tanning.*

Laboratory utensils and apparatus; enameling lamps; blowpipes.

Apparatus and instruments for industrial and commercial experiments.

Appliances and apparatus of the manufactories of chemical products; soaps and candles.

Appliances and methods of the manufacture of essences, varnishes, articles of india-rubber and gutta-percha.

Appliances of factories treating mineral substances used in lighting.

Appliances and methods of bleaching works.

Appliances for the preparation of pharmaceutical products.

Appliances of factories for tanning and dressing leather.

Appliances and methods of glass works, and manufactories of ceramic products.

CLASS 52.—*Machines and apparatus of general mechanics.*

Separate pieces of machinery. Bearings, rollers, slide-bars, eccentrics, gearings, connecting-rods, parallel motions and joints, pulleys, belts, transmissions by ropes, etc. Couplings, clutches, etc. Regulators and governors. Apparatus for greasing and oiling.

Counters and registers. Dynamometers, pressure-gauges, wheighing machines. Apparatus for measuring liquids and gases.

Machines used for moving heavy weights.

Hydraulic lifting machines : norias, pumps, tympans, hydraulic rams, etc.

Hydraulic motors : wheels, turbines, water-pressure engines.

Hydraulic presses.

Engines moved by steam : stationary engines, partially stationary engines, movable engines. Boilers, steam generators and accessory apparatus

Apparatus for condensing vapors.

Engines run by other vapors than steam; by combined vapors.

Gas, hot-air and compressed-air engines.

Apparatus for the transmission of power by water and by air.

Wind-mills and wind-vanes.

Balloons

Cements and non-conducting preparations.

CLASS 53.—*Machine tools.*

Turning lathes and machines for boring and planing, mortise-cutting machines, drilling machines, cutting presses, shaping machines, tenoning machines, punching machines, tapping machines, screw-cutting machines, riveting machines, etc. Perforators. Various tools used in machine shops.

Stones for sharpening, scraping, polishing, etc.

Tools, machines and apparatus used for pressing, crushing, working-up, stamping, and beating out, etc.

Machines for sawing and polishing hard stones, marbles, etc.

Special machine tools used in various industries.

CLASS 54.—*Appliances and methods of spinning, rope-making.*

Appliances for hand-spinning. Separate pieces pertaining to the appliances of spinning-mills. Machines and apparatus used in the preparation and spinning of textile substances. Apparatus and methods used in the operations complementary to these: drawing, winding, twisting, and throwing; mechanical finishing. Apparatus for drying and for determining the thickness and numbering the threads.

Appliances of rope-walks. Round cables, flat cables, tapering cables, ropes, twine, wire cables, cables with metal core, fuses, quick matches, etc.

CLASS 55.—*Apparatus and methods of weaving.*

Appliances used in preparatory operations for weaving: machines for warping, winding. *Lisages.*

Hand and mechanical looms for the manufacture of plain fabrics. Looms for the manufacture of figured and embroidered stuffs. Damask looms.

Looms for manufacturing carpets and tapestries.

Looms and machines for the manufacture of hosiery and net.

Appliances for lace-making. Appliances for making trimmings.

Upright looms and methods of spooling. Accessory apparatus: machines for fulling, calendering, embossing, watering. measuring, folding, etc.

CLASS 56.—*Appliances and methods of sewing and making articles of clothing.*

Ordinary tools of shops for sewing and making garments. Machines for sewing, stitching, hemming and embroidering.

Cutters for stuffs and leathers for the manufacture of articles of clothing and shoes

Machines for making, nailing and screwing shoes.

Machines for utilizing India rubber,

CLASS 57.—*Appliances and methods of manufacture of articles for furniture and dwellings.*

Machine tools for the preparation and working of wood; planing machines, shaping machines, saws of all kinds, mortising machines, etc. Machines for making barrels. Machines for cutting cork, etc.

Machines for cutting veneers. Saws for scrolls, profiles, etc.

Machines for cutting moldings, borders for frames, floor squares, furniture, etc. Turning lathes and different apparatus of joiners and cabinet makers; machines for sharpening saws.

Machines and apparatus for working in stucco, papier maché, ivory, bone, horn, etc.

Machines for pointing, sculpturing, reducing statues, engraving and engine-turning, etc.

Brick machines, tile machines; machines for making artificial stones, drawing out, compressing ceramic products. Kneaders, grinders and other machines for making bricks, pipes and pottery for buildings.

CLASS 58.—*Appliances and methods of paper manufacture, coloring and printing.*

Appliances and products of the manufacture of paper pulp of wood, straw, alfa, etc.

Methods and products of the bleaching of wood fibres.

Appliances for the manufacture of paper by vat and by machine.

Apparatus for pressing, glazing, watering, embossing, water-marking and ruling paper. Machines for cutting, paring and stamping paper, etc.

Appliances for bleaching, coloring, and finishing paper and tissues.

Appliances for printing paper-hangings and tissues. Machines for engraving printing rollers.

Appliances, apparatus and products for type foundries, stereotype plates, etc.

Machines and apparatus employed in printing, stereotyping, copper-plate printing, autography, lithography, engraving on copper, engraving on zinc, chromo-lithography, etc. Machines for setting up and distributing type. Printing of bank-notes, postage stamps, etc.

CLASS 59.—*Machines, instruments and methods used in various occupations.*

Coining-presses.

Machines used in the manufacture of buttons, pens, pins, letter-envelopes; machines for packing, making brushes and cards; manufacturing capsules; for fixing lead seals to merchandise; corking bottles, etc.

Tools and methods of manufacture of articles of clock-work. toys, inlaid work, basket-work, etc.

Machines for bookbinding. Writing machines.

Appliances, instruments and machines for the manufacture of tobacco.

CLASS 60.—*Carriage-making, wheelwrights' work, harness-making and saddlery.*

Separate parts of carriage-makers' and wheelwrights' work; wheels, tires, axles, hubs, iron-work, etc. Springs and various systems of hanging carriages.

Methods of harnessing. Brakes.

Products of the wheelwrights' work; wagons, carts, drays, vehicles for special purposes.

Products of carriage-building, carriages for hire, state carriages, private carriages, sedan chairs, litters, sleighs, etc., velocipedes.

Articles of harness and saddlery; pack-saddles, saddles, stretchers for conveying the wounded; bridles and harness for riding animals, beasts of burden and draught horses; stirrups, spurs, driving and riding whips.

Class 61.—*Railroad appliances.*

Separate parts: springs, buffers, brakes, etc.

Permanent way: rails, chairs, fish-plates, crossings, switches, turn-tables; buffers; water cranes and water-tanks; optical and acoustic-signals. Various kinds of safety apparatus, block system.

Fixed appliances for tramways.

Rolling-stock: passenger-cars, construction-cars, freight-cars, cattle-cars, locomotives, tenders.

Self-moving carriages and road engines.

Special machines and tools for shops of maintenance, repair and the construction of appliances.

Appliances and machines for inclined planes and self-acting planes; models of engines, systems of traction and apparatus relating to railways.

Rolling stock for tramways of various kinds.

Models, plans and drawings for depots, stations, car-houses, and other buildings necessary for the working of railroads.

Class 62.—*Electricity.*

Production of electricity: static electricity, piles and accessories, magneto-electrical and dynamo-electrical machines, accumulators.

Transmission of electricity: cables, wires and accessories; lightning-rods.

Electrometry: apparatus for electrical measurements. Registers of electricity.

Applications of electricity: telegraphy, signals, telephony, microphony, photophony, electric light, electric motors, electrical locomotion, conveyance and distribution of force, transformers. Medical electricity, electro-chemistry. Electro-magnets and magnets, compasses. Electrical clock-work.

Various kinds of apparatus.

Class 63.—*Appliances and methods of civil engineering, of public works and architecture.*

Building materials, rocks, woods, metals, ornamental stones; limes, mortars, cements, artificial stones and concretes; roofing tiles, bricks, paving tiles; slates, roofing-paper and felts for roofs.

Appliances and products of methods employed for the preservation of wood. Apparatus and instruments for testing building materials.

Appliances for earth-works; excavators. Apparatus used in work yards. Tools and methods used by stone-dressers and cutters, masons, carpenters, roofers, locksmiths, joiners, glaziers, plumbers, house-painters, etc.

Fine locksmiths' work : safes, locks, padlocks, railings, balconies, bannisters.

Appliances and machines for foundation work : pile-drivers and pile work, screw piles, pumps, pneumatic apparatus, dredges, etc. Appliances for hydraulic works in seaports, canals, rivers.

Appliances and apparatus used in the supply of water and gas. Appliances used in the maintenance of roads, plantations, walks.

Light-houses.

Special appliances for telegraphing by compressed air.

Models, plans and drawings of public works; bridges, viaducts, aqueducts, sewers, canal-bridges, locks, dams.

Models, plans and drawings of public buildings for special purposes; buildings for civil purposes; large and small houses for letting; settlements and dwellings for workmen.

Class 64.—*Hygiene and public charities.*

Appliances, instruments and apparatus used in hygienic investigations.

Sanitary appliances and methods for dwelling houses, buildings and cities; direct renewal of air, heating, ventilating, lighting, in their relation to health; conduits for water and sewerage, drains and sewers; flushing tanks, hydraulic syphons, water-closets, public and private urinals, sinks, close-stools, nightsoil apparatus, sanitary plumbing, walls, bricks, roofs, flooring, etc.

Apparatus for carrying off, receiving and treating sewerage.

Apparatus and methods for filtering water.

Apparatus indended for the prevention of infectious diseases; methods, materials and instruments for purifying, destroying germs, and disinfecting.

Apparatus and instruments for interring and destroying dead bodies in cemetries and on battle-fields; cremation.

Plans, models and documents of health offices, national, departmental and municipal.

Appliances and methods of industrial and professional hygiene.

Plans, models, arrangement and furniture of hospitals, various asylums, houses of refuge, of retreat, insane asylums, infant asylums, etc.

Plans, models, specimens of civil and military ambulances.

Mineral waters and waters charged with natural or artificial gases.

Class 65.—*Navigation and life-saving.*

Drawings and models of stocks, graving docks, floating docks, etc.

Drawings and models of vessels of all kinds used for river and sea navigation. Plans and models of systems of construction adopted in the merchant-service and in the navy. Torpedo-boats.

Ships' boats and small craft.

Appliances for rigging ships : cranes, capstans. Steam capstans. Steering gear.

Equipment.

Flags and signals. Apparatus intented to prevent collision at sea. Buoys, beacons, etc.

Apparatus for swimming, diving and life-saving, practically exhibited ; life-preservers, swimming-belts, etc. ; diving-bells, nautiluses, diving-armor, etc. Submarine boats, appliances of maritime life-saving service ; mortars for casting lines ; life-boats, etc. Apparatus for life-saving in case of fire and other accidents.

Pleasure boats.

CLASS 66.—*Apparatus and methods of the art of war.*

Works of military engineering ; fortifications.

Artillery, arms, gun-carriages, and projectiles of all kinds.

Equipment, clothing, and camp material.

Appliances for military transports.

Military topography and geography.

SEVENTH GROUP.

FOOD PRODUCTS.

CLASS 67.—*Cereals. Farinaceous products with their derivatives.*

Wheat, rye, barley, rice, maize, millet, and other cereals in the grain, and when ground.

Hulled grain and oatmeal and grits.

Starch from potatoes, rice, lentils, etc., gluten.

Tapioca, sago, arrow-root, various starches, mixed farinaceous products.

Italian paste, semolino, vermicelli, maccaroni.

Alimentary preparations as substitutes for bread, nouilles, pap, pastry of domestic make.

CLASS 68.—*Products of the bakery and pastry shop.*

Various kinds of bread, with or without yeast ; fancy bread and bread in shapes ; compressed bread for traveling, military campaigns, etc. ; sea biscuit.

Various kinds of pastry peculiar to each country. Ginger-bread and dry cakes fit for preservation.

CLASS 69.—*Fat substances used for food, milk products and eggs.*

Eatable fats and oils.

Fresh milk, preserved milk ; salt and fresh butter ; cheeses.

Eggs of all kinds.

Class 70.—*Meats and fishes.*

Salt meats of every kind. Meat preserved by various processes. Meat and soup cakes. Hams and prepared meats.
Poultry and game.
Salt fish, packed fish, codfish, herrings, etc.; fish preserved in oil; sardines, pickled tunny fish, etc.
Crustacea and shell-fish : Lobsters, shrimps, oysters; preserved oysters, anchovies, etc.

Class 71.—*Vegetables and fruits.*

Tubers, potatoes, etc.
Dry farinaceous vegetables: beans, lentils, etc.
Green vegetables for cooking : cabbages, etc.
Vegetable roots : carrots, turnips, etc.
Vegetables used for seasoning : onions, garlic, etc.
Salads, gourds, pumpkins, melons, etc.
Vegetables preserved by various processes.
Fresh fruits ; fruits dried and prepared ; prunes, figs, raisins, etc.
Fruits preserved without sugar.

Class 72.—*Condiments and stimulants; sugar and products of confectionery.*

Spices. Pepper, cinnamon, allspice, etc.
Table salt.
Vinegars.
Condiments and compound stimulants : mustards, karis, sauces, etc.
Teas, coffees and aromatic drinks; coffees of chicory and sweet acorns.
Chocolates.
Sugars, for domestic and other uses.
Various products of confectionery : sugar-plums, sugar bon-bons, soft bon-bons, nougat, angelica, aniseed, preserves and jellies.
Conserves.
Fruits preserved in brandy.
Syrups and sugared liquors.

Class 73.—*Fermented drinks.*

Ordinary wines, white and red.
Cordials and sweet wines.
Sparkling wines.
Ciders, perry and other beverages made from cereals.
Fermented beverages of every kind.
Brandies and alcohols.
Spirituous liquors, gin, rum, tafia, kirsch, etc.

EIGHTH GROUP.

AGRICULTURE, CULTIVATION OF THE VINE AND FISH CULTURE.

CLASS 73 bis.—*Agronomy. Agricultural statistics.*

Studies concerning the waters, the soils, the climates and rural populations. Divisions of lands and cultivations.

Agricultural statistics; agrological, hydrographical, climacteric maps, agronomical maps. Tables, plans, models.

Agronomical stations; agricultural laboratories.

Agricultural syndicates, societies and meetings.

Institutions of credit, charity, of protection for rural population; mortgage companies, agricultural banks, peoples' banks, co-operative insurance, savings banks, etc.

Legislative measures; rural code, special laws.

Official agricultural administration; works and publications. Agricultural missions.

CLASS 73 ter.—*Organisation, methods and appliances of agricultural instruction.*

Plans, models and programmes of the agricultural primary schools, agricultural orphan asylums, farming schoools or apprentices' schools.

Methods and apparatus of instruction, fields for experimenting, etc.

Work done by pupils.

Plans and models of practical agricultural schools, of special schools of vine culture, horticulture and forestry, etc.

Methods and apparatus of instruction.

Work done by masters; specimens of work done by pupils.

Plans and models of national schools of agriculture, of agricultural academies. Veterinary schools. Schools of forestry. Agricultural high schools, agronomical institutes.

Methods and apparatus of instruction.

Work of professors, specimens of pupils' work.

CLASS 74.—*Specimens of farm improvements and agricultural works.*

Models of farm buildings of various countries.

Designs of stables, cattle-houses, sheep-sheds and folds, pig-sties, and buildings for raising and fattening animals.

Appliances for stables, cattle-houses, kennels, etc.

Apparatus for preparing food for animals.

Agricultural machines in operation: steam plows, reapers, mowers, hay-makers, treshers, etc.

Designs of agricultural works: distilleries, sugar-mills, refineries, breweries, flour-mills, fecula and starch factories, silk-worm nurseries, cheese factories, dairies.

Presses for cider and oil.

Models of poultry-houses, pigeon-houses, pheasant-houses.
Apparatus for artificial hatching,
Models of kennels.

CLASS 75.—*Vine cultivation.*

Models of buildings used in vine cultivation.
Apparatus used in the cultivation of the vine.
Appliances of wine vaults, cellars and vats. Presses.
Processes and methods employed in fighting diseases of the vine.
Collection of vines.

CLASS 76.—*Useful and injurious insects.*

Bees, silkworms and other varieties of the bombyx.
Cochineal insects.
Apparatus used in the culture and keeping of bees and silk-worms.
Apparatus and methods used in the destruction of injurious insects.

CLASS 77.—*Fish, crustacea and mollusks.*

Useful aquatic animals in the live state.
Aquariums, methods of pisciculture.
Apparatus for rearing fish, mollusks and leeches.

NINTH GROUP.

HORTICULTURE.

CLASS 78.—*Conservatories and horticultural apparatus.*

Gardeners', nurserymen's and horticulturalists' tools.
Apparatus for watering and keeping turf.
Large conservatories and their appurtenances. Room and window conservatories
Aquariums for aquatic plants.
Fountains and apparatus for the ornamentation of gardens.

CLASS 79.—*Flowers and ornamental plants.*

Species of plants and specimens of cultivation, exhibiting the charasteristic types of the gardens of the natives of every country.

CLASS 80.—*Vegetables.*

Species of plants and specimens of cultivation, indicating the charasteristic types of the kitchen-gardens of every country.

CLASS 81.—*Fruits and fruit trees.*

Specimens of plants and specimens of the products of cultivation exhibiting the characteristic types of the orchards of each country.

CLASS 82.—*Seeds and saplings of forest species.*

Species of plants and specimens of the products of cultivation exhibiting the methods of forest planting in use in each country.

CLASS 83.—*Hot-house plants.*

Specimens of the methods of cultivation in use in variou. countries for pleasure or utility.

CLASSIFICATION OF EXHIBITS BY THE DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.

DIVISION I

ANIMAL PRODUCTS

SECTION I. — Meat and Dairy Products.

Subsection A. — Packed and Cured Meats.
— B. — Canned Meats and Soups.
— C. — Dairy Products.
— D. — Models.

SECTION II. — Economic Entomology.

Subsection A. — Apiculture.
— B. — Sericulture.
— C. — Insects Injurious and Beneficial.
— D. — Insecticides.
— E. — Insecticide Appliances.

DIVISION 2

FOOD SUBSTANCES OF VEGETABLE ORIGIN

SECTION III. — Cereal Products.

Subsection A. — Cereals in the Ear.
— B. — Cereals in the Grain.
— C. — Farinaceous Substances.
— H. — Rice.

SECTION IV. — Vegetables.

Subsection A. — Legumes.
— B. — Potatoes.
— C. — Onions.
— D. — Roots.
— E. — Hops.
— F. — Castor Beans and Oil.
— G. — Canned Vegetables.
— H. — Miscellaneous Exhibits.

SECTION V. — Fruits.

Subsection A. — Citrus Fruits.
— B. — Sub-tropical Fruits.
— C. — Orchard Fruits.
— D. — Small Fruits.
— E. — Nuts
— F. — Dried Fruits.
— G. — Preserved Fruits.

SECTION VI. — Viticulture.

Subsection A. — Grape Vines and Roots.
— B. — Culture and Manufacture.
— C. — Condensed Grape Must.
— D. — Wines and Brandies.
— E. — Raisins, and Dried Wine Grapes.

SECTION VII. — Sugars and Syrups.

Subsection A. — Sugar Producing Plants.
— B. — Sorghum Sugar and Molasses.
— C. — Cane Sugar and Syrups.
— D. — Beet Sugar.
— E. — Maple Sugar.
— F. — Manufacture.

DIVISION 3

COMMERCIAL VEGETABLE PRODUCTS, NOT FOODS

SECTION VIII. — Textile Fibres.

Subsection A. — Wool. (Necessarily grouped here.)
— B. — Cotton.
— C. — Flax and Hemp.
— D. — Ramie and Jute.
— E. — Mallow Fibres.
— F. — Leaf Fibres.
— G. — Miscellaneous Fibrous Material.

SECTION IX. — Tobacco.

Subsection A. — Varieties of Leaf.
— B. — Manufacture.

SECTION X. — Forage Plants and Grasses.

Subsection A. — Forage Plants.
— B. — Baled Hay.
— C. — Ensilage.
— D. — Grasses Proper.

SECTION XI. — Forestry.

Subsection A. — Forest Botany.
— B. — Forestry Proper.
— C. — Forest Utilization.

DIVISION 4

EDUCATIONAL EXHIBITS

SECTION XII. — Economic Ornithology and Mammalogy.

SECTION XIII. — Food Adulteration.

Subsection A. — Butter and Fats.
— B. — Condiments.
— C. — Microscopic Instruments used for the detection of adulterants.

SECTION XIV. — Fungous Diseases of Plants.

SECTION XV. — Agricultural Statistics.

SECTION XVI. — Agricultural Science and Education.

Subsection A. — Schools.
— B. — Experiment Stations.

FIRST GROUP.

Works of Art.

CLASS I.—*Oil Paintings.*

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ALLEN, THOMAS, born at Saint-Louis, Mo.
1. Cattle.

ALLEN, WILLIAM S., born at New York, N. Y.
Masters : Lefebvre, Claude Monet, Bouguereau.
2. Evening by the Lake.

ANDERSON, A. ARCHIBALD, born at New York.
Masters : Bonnat, Cormon and Collin.
3. Portrait of the Right Rev'd A. C. Coxe, bishop of Western New York.

BACHER, OTTO H., born at Cleveland, Ohio.
Masters : Boulanger, Lefebvre, C.-Duran.
4. Richfield Center, Ohio.

BACON, HENRY, born at Boston, Mass.
Master : Cabanel.
5. Astray.

BAIRD, WILLIAM.
6. En famille.

BARNARD, EDWARD H., born at Belmont, Mass. Masters : Lefebvre, Collin, and Otto Grundman.

7. Pastime in the Middle age.

BEAUX, Miss.

8. Portrait.

BECKWITH, J. CARROLL, born at Hannibal, Mo. Master : Carolus-Duran. Recompense : Honorable mention, Salon of 1887.

9. A Lady of California.
10. Portrait of William Walton.
11. Portrait of a Child. (Owner, H. W. Poor, New York.)

BELL, EDWARD A., born at New York, N. Y. Master : Edw. A. Bell.

12. Portrait.

BENSON, FRANK W., born at Salem, Mass. Masters : Jules Lefebvre and Gustave Boulanger.

13. In Summer.

BIRNEY, WILLIAM VERPLANCK, born at Cincinnati, Ohio. Masters : Julius Benzur and Wilhelm Lindenschurst, of Munich.

14. Dolce far Niente, representing a southern colored waiter boy taking his ease during working hours.
15. The Labor Question in the South, representing a colored boy cleaning silverware on a terrace.

BISBING, HENRY S., born at Philadelphia, Pa. Master : M. F. de Vuillefroy.

16. The Siesta on the Beach.

BLACKSTONE, Mrs. SADIE, born at Halifax, Nova Scotia. Masters : Simabildi and de Montaland.

17. Senlisse; Valley of Chevreuse.

BLASHFIELD, EDWIN HOWLAND, born at New York, N. Y. Master : Léon Bonnat.

18. Inspiration. (Owner, Col. H. M. Boies.)
19. Portrait. (Owner, C. E. Wilbur.)

BLUM, ROBERT F., born at Cincinnati, Ohio. Recompense : Gold medal, Am. Art Ass'n.

20. Venetian Lace Workers.

BOGGS, FRANK M., born at New York, N. Y. Master : M. Gérôme.

21. Saint-Germain des Prés. (Owner, Mons. Diot.)
22. View of Dordrecht. (Owner, Mons. Diot.)
23. Place de la Bastille, Paris. (Owner, French Gov't.)

BOYDEN, FREDERICK D., born in Boston, Mass. Masters : Boulanger and M. J. Lefebvre.

24. Pastures at Cape Ann, Massachusetts.

BRANDEGEE, ROBERT B., born at Berlin, Conn. Master : M. Jacquesson de la Chevereuse.

25. Portrait.

BRECK, JOHN L.

26. Autumn.
27. The First Born.

BRICHER, ALFRED T., born at Portsmouth, N. H.

28. On the Rockbound Coast of Massachusetts.

BRIDGMAN, FREDERICK ARTHUR, born at Tuskagee, Alabama. Master : J. L. Gérôme. Med. 3rd class 1887, 2nd class 1878 (E. U.), ✻ 1878.

29. The Pirate of love.
30. Fête of the Prophet at Oued-el-Kebir (Blidah).
31. Negro Fête at Blidah.
32. Horse Market at Cairo.
33. Portrait of Mme. B.
34. On the House-tops, Algiers.

BRISTOL, JOHN BUNYAN, born at Hillsdale, N. Y. Master : Henry Ary, Hudson, N. Y. Recompense : Medal, Centennial Exposition of 1876.

35. Haying Time, near Middlebury, Vt.

BROOKS, MARIA, born in England. Student of South Kensington School of Art, and Schools of the Royal Academy, London, England. Recom-

penses : 2 gold, 1 silver, 3 bronze medals; Crystal Palace, London 1878 ; Dipl , 3rd order of Merit, Melbourne, etc.

36. Ready for a Bowl.

BROWN, J. G., born in Scotland.

37. The Longshoreman's Noon. (Owner, W. T. Evans.)

38. New York Street Band.

39. Morning Papers.

BROWN, CHARLES FRANCIS, born at Waltham, Mass. Masters : Boulanger, Lefebvre, Gérôme.

40. Landscape.

BUTLER, HOWARD RUSSELL, born at New York, N. Y. Masters : Dagnan-Bouveret, Roll, Gervex, Beckwith. Recompenses : Honorable Mention, Paris Salon, 1886; " Temple " Marine and Landscape Medal, Philadelphia, 1888.

41. Seaweed Gatherers

42. Low Tide, Saint Ives, Cornwall, England.

43. Rurales Fording the Yantepec.

BUTLER, GEORGE B., born at New York, N. Y.

44. Portrait of Mrs. Stimson.

45. Tambourine Players.

CARR, LYELL.

46. Good Luck.

CAULDWELL, LESLIE GIFFEN, born at New York, N. Y. Masters : Boulanger, Lefebvre, Carolus-Duran.

47. Portrait of my Fencing-master, M. Rougé.

CHAPMAN, CARLTON T., born at New London, O. Student at National Academy of Design, and Art Students' League, New York.

48. Early Morning in a Harbor.

CHASE, WILLIAM M.

49. A City Park.

50. Peace.

51. A Bit of Long Island.
52. Stoneyard.
53. Gowanus Bay.
54. Portrait of Mother and Child.
55. Portrait of Mrs. C.
56. Portrait of Miss Gill.

COFFIN, WILLIAM ANDERSON, born at Allegheny City, Pa. Master : Léon Bonnat. Recompense, 2nd Hallgarten Prize, National Academy of Design, N. Y. 1886.

57. Moonlight in Harvest.
58. September.
59. Early Moonrise.
60. After the Storm.

COLE, J. FOXCROFT, born at Jay, Me. Master : Charles Jacques. Recompense : Medal. Centennial Exposition of 1876.

61. Abbajona River, Mass.

COPELAND, ALFRED B.

62. Salle François Ier, Cluny Museum.
63. Study of Interior.

COX, KENYON, born at Warren, Ohio. Master : J. L. Gérôme and Carolus-Duran.

64. Painting and Poetry.
65. Jacob wrestling with the Angel.
66. Portrait of Augustus Saint-Gaudens. (Owner, A. Saint-Gaudens.)
67. Fiying Shadows.

CURTIS, RALPH.

68. View at Venice.

DANA, WM. P. W., born at Boston, Mass. Master : Eugène Le Poittevin. Med. 3rd cl. 1878, Exp. Univ.

69. Christ walking on the Sea.
70. Hay Barges on the Thames.

71. Calm Evening on the Thames.
72. A Good Breeze, moonlight effect.

DANNAT, WILLIAM T. Master: M. Munkacsy Medal, 3rd class, 1883.

73. A Quartette.
74. A Sacristy in Aragon.
75. Portrait of Miss H.
76. Mariposa.
77. A study in red.
78. Une Saducéenne.

DARLING, WILDER M., born at Sandusky, Ohio. Masters: Cormon and H. Mosler.

79. Grandma's first visit.

DAVIS, CHARLES H., born at Amesbury, Mass. Master: Boulanger and Lefebvre.

80. A Winter Evening.
81. The Valley. (Evening.)
82. The Hillside.
83. Evening after the storm.

DELACHAUX, LEON D.

84. Portrait of Mlle H.
85. Engaging Servants in the Olden Times.

DENMAN, H., born at Brooklyn, N. Y. Master: Carolus-Duran. Honorable Mention, Paris Salon, 1886.

86. Offering to Aphrodite. (Owner, Mrs. Wallace.)

DEWING, THOS. W., born at Boston, Mass. Masters: Lefebvre and Boulanger.

87. Lady in Yellow. (Owner, Mrs. J. Gardner.)

DODGE, WM. L., born in Virginia. Masters: Gérôme, Collin, Courtois.

88. David.

DODSON, SARAH, P. B.

89. Morning Stars.
90. Meditation of the Holy Virgin.

DOLPH, JOHN H., born at Fort Ann, New York. Master : Louis Van Kuyck of Antwerp.

91. The Rat retired from the world.

DONOHO, G. RUGER, born at Churchill, Miss. Masters : Boulanger, Lefebvre, Bouguereau and Fleury.

92. La Marcellerie.
93. The edge of a forest.

DOW, ARTHUR W., born at Ipswich, Mass. Masters: Boulanger, Lefebvre, Doucet and Paul Delance.

94. At Evening.

DYER, CHARLES GIFFORD.

95. On the Riva; Venice.
96. San Giorgio, seen from the Giudecca; Venice.

EAKINS, THOMAS.

97. Portrait, Professor Geo. H. Barber.
98. The Dancing Lesson.
99. The Veteran (portrait of Geo. Reynolds).

EATON, C. HARRY, born near Akron, Ohio.

100. Landscape. (Owner, W. T. Evans.)

EATON, WYATT, born in Canada. Master: Gérôme.

101. Portrait of Miss M. G. R. (Owner, Mrs. S. Reed.)
102. Portrait of Mrs. R. W. G. (Owner, R. W. Gilder.)
103. Portrait of man with violin. (Owner, T. Cole.)
104. Ariadne. (Owner, W. T. Evans.)

FARNY, HENRY F., born at Cincinnati, Ohio.

105. Danger. (Owner, A. Howard Hinkle.)

FISHER, MARK.

106. Winter Fare.
107. A Ford; Valley of the Teste

FORBES, CHARLES F.

108. Portrait.
109. Portrait of Mlle F. F.

FOWLER, Frank, born at Brooklyn, New York. Masters: Carolus-Duran and Cabanel.

110. At the Piano.

FREER, Frederick W., born at Chicago, Ill., Student at Royal Academy of Fine Arts, Munich.

111. Nude study.

FULLER, Geo., born 1822, died 1884.

112. The Quadroon. (Owner, Mrs. S. D. Warren.)

GARDNER, Miss Elisabeth Jane, born at Exeter, N. H. Masters: Bouguereau and J. Lefebvre. Medal, 3rd class, 1886.

113. Too imprudent.
114. The Farmer's Daughter.

GAUL, Gilbert, born at Jersey City, N. J.

115. Charging the Battery. (Owner, W. T. Evans.)
116. The Wounded Officer.

GAY, Edward, born in Ireland. Masters: Jas. M. Hart and Geo. H. Boughton. Recompense: Prize of 2,000 dollars American Art Association, New York.

117. The Old Boundary Line.

GAY, Walter, born at Boston, Mass. Master: Bonnat. Medal, 3rd class, 1888.

118. Charity.
119. Le Benedicite (M. I. P. & B.-A.).
120. The Weaver.
121. The Spinners.
122. The Book-worm.
123. A Dominican.

GIFFORD, Robert Swain, born at Naushon Island, Mass. Master: Albert Van Beest. Recompenses: Centennial Medal; and American Art Association Prize of 2,500 dollars.

124. Early Summer. (Owner, Jerome B. Wheeler.)

125. Near the Coast. (Owner, New York Metropolitan Museum.)
126. A Kansas Ranch.

GILL, Miss R. LORRAINE, born at Baltimore, Md. Masters: Wm. M. Chase and Alfred Stevens.
127. The Orchid.

GRAVES, ABBOTT, born at Weymouth, Mass. Master: M. Cormon.
128. Peonies.
129. Basket of Flowers.

GREATOREX, Miss ELEANOR ELIZABETH, born at New York, N. Y. Master: M. Henner.
130. Tea Roses.

GROSS, PETER ALFRED, born at Allentown, Pa. Masters: Yon and Petitjean.
131. Road to the spring (Liverdun).
132. View of the Moselle (Liverdun).

GUISE, MARIE, born at New York, N. Y. Master: Schenck.
133. Haying Time in Ecouen, France.

GUTHERZ, CARL, born in Switzerland. Masters: Boulanger, Lefebvre.
134. Lux incarnationis.
135. Memorialis.

HAAS, MAURITS F. H. DE, born at Rotterdam, Holland. Master: Louis Meyer. Recompenses: Medal Centennial Exposition of 1876 and medals from Boston, Cincinnati, etc., etc.
136. On the Fishing Grounds.

HAMILTON, E. W. D.
137. Sandy plains at Cape Ann, Mass.

HAMILTON, HAMILTON.
138. A September Day.

HARRISON, ALEXANDER, born at Philadelphia, Pa. Masters: Bastien Lepage and M. Gérôme.

139. Castles in the air. (Owner, J. G. Johnson.)
140. The Amateurs. (Owner, Chicago Art Institute.)
141. Twilight. (Owner, St. Louis Museum of Fine Arts.)
142. The Wave.
143. In Arcadia.
144. Evening.

HARRISON, BIRGE, born at Philadelphia, Pa.

145. Novembre, Property of French Gov't.

HARRISON, BUTLER, born at Philadelphia. Pa. Master: M. L. O. Merson.

146. Landscape.

HART, JAS. M., born at Kilmarnock, Scotland. Masters: Wm. Hart and J. W. Shirm. Recompense: Centennial medal, 1876.

147. The Rain is over.
148. In the Autumn Woods.

HASSAM, CHILDE, born at Boston, Mass.

149. Twilight.
150. Rue Lafayette; winter evening.
151. After Breakfast.
152. Letter from America.

HAYDEN, CHARLES HENRY, born at Plymouth, Mass. Masters: Boulanger, Lefebvre, Collin.

153. Morning on the plains.

HEALY, G. P. A., born at Boston, Mass. Masters: Gros and Couture. Med. 3rd cl., Salon 1840, 2nd class 1855 (E. U.).

154. Portrait of M. C. Bigot.
155. Lord Lytton.
156 King of Roumania.
157. Study at the harp.
158. Stanley.
159. Portrait of M. Brownson.

HENNESSY, WILLIAM J., born in Ireland.

160. Shrimp fishers in Normandy.
161. Expiation pilgrimage, Calvados.

HENRY, EDWARD L., born at Charleston, S. C. Master: Paul Weber. Recompenses: medals, New Orleans and Chicago.

162. One hundred Years ago.
163. The latest Village Scandal.

HINCKLEY, ROBERT, born at Boston, Mass. Master: Carolus-Duran.

164. Portrait of Mr. Clifford Richardson.

HITCHCOCK, GEORGE, born at Providence, R. I. Masters: Boulanger, Lefebvre, Mesdag.

165. Tulip Culture. (Owner, W. H. Tailer.)
166. Annonciation.
167. Maternity.

HOVENDEN, THOMAS, born in Ireland. Master: Cabanel.

168. Last Moments of John Brown, John Brown leaving the jail on the morning of his execution. (Owner, Mr. Robbins Battell.)

HOWE, WILLIAM H., born at Ravenna, Ohio. Masters: de Thoven and de Vuillefroy. Med. 3rd cl., 1888.

169. At rest; September in Normandy.
170. The Return of the cows; evening in Normandy.
171. Departure for the market; souvenir of Holland.

HOWLAND, ALFRED C., born at Walpole, N. H. Masters: Flamm of Dusseldorf, and Lambinet of Paris.

172. A Day in June.

HUNTINGTON, DANIEL, born at New York, N. Y. Masters: S. F. B. Morse, and G. F. Ferrero. Recompense: 1st class Medal, Centennial Exposition, 1876.

173. A Burgomaster of New Amsterdam (New Amsterdam was the original name of New York).

HYDE, W. H.

174. The first Romance.

INNESS, GEORGE.

175. A short cut to Wachung Station. (Owner, American Art Association.)

IRWIN, BENONI.

176. An Art Votary.

ISHAM, SAMUEL, born at New York, N. Y. Masters: Jacquessen de la Chevereuse, Boulanger and Lefebvre.

177. Study for a Portrait.

JOHNSON, EASTMAN, born in Maine.

178. Two Men.

JONES, H. BOLTON.

179. The Old Pasture.

KAVANAGH, JOHN, born at Cleveland, Ohio. Masters : Loefftz, Boulanger, Cormon.

180. Washerwomen.
181. Woman of Scheveningen.
182. Shepherd.

KELLOG, Miss ALICE D., born at Chicago, Ill. Masters : Boulanger, Lefebvre, Courtois.

183. Portrait of Miss G. E. K.

KING, LOUISE HOWLAND, born at San Francisco, Cal. Student of Academy of Design and Art Students League.

184. The Lotos Eaters.

KLUMPKE, Miss ANNA E., born at San Francisco, Cal. Masters : T. Robert-Fleury, Bouguereau, and de Vuillefroy.

185. Portrait.

KLYN, CHARLES F. DE, born at Tarrytown, N.Y. Masters : J. Lefebvre and Cormon.

186. Women chatting.
187. A Ray of Sunlight.

KNIGHT, DANIEL RIDGWAY, born at Philadelphia. Masters : Gleyre and Meissonier. Hon. Men., Paris, '82; Med. 3rd class, Paris, '88; Gold med. 2nd class, Munich, '88.

188. Mourning.
189. Hailing the Ferryman.
190. The Meeting.

KOEHLER, ROBERT, born at Hamburg. Masters : Defregger and Loefftz.

191. The Strike.

LA CHAISE, EUGENE A., born at New York, N. Y. Masters : G. Boulanger and Lefebvre.

192. Souvenirs of Japan.

LASAR, CHARLES, born at Johnstown, Pa. Master : M. Gérôme.

193. On the coast of Britany.

LASH, LEE, born at San Francisco, Cal. Masters : Boulanger and M. J. Lefebvre.

194. The Death-watch.

LOCKWOOD, ROBERT W., born at Wilton, Conn. Masters : Schenek and Lafarge.

195. Portrait of M. C.

LOOMIS, EURILDA Q., born at Pittsburg Pa. Masters : Boulanger and Lefebvre.

196. Rustic Life in Picardy.

LORING, FRANCIS WILLIAM, born at Boston, Mass.

197. Autumn in the Valley of the Arno.

LYMAN, JOSEPH, born at Ravenna, Ohio.

198. On the Beach (at Percé, Canada).

Mc ENTEE, Jervis, born at Rondout, N. Y.

199. Clouds.
200. A Kaatskill River. (Owner, J. C. Cornell.)
201. Shadows of Autumn. (Owner, W. P. Eno.)

MAC-EWEN, Walter, born at Chicago, Ill.

202. Returning from work.
203. A Ghost story.
204. Stad Herberg, Nieuw Amsterdam (New York) 1650.

MACY, William S., born at New Bedford, Mass.

205. The Shore of Meacham Lake.

MATHEWS, Arthur F., born in California. Masters : Boulanger and Lefebvre.

206. Pandore.

MELCHERS, J. Gari, born at Detroit, Mich. Masters: Boulanger and Lefebvre. Med. 3rd cl. 1888.

207. Communion.
208. The Sermon.
209. The Pilots.
210. Shepherdess.

MEZA, Wilson de, born at Tarrytown-on-the-Hudson, N. Y. Masters : Boulanger and Lefebvre.

211. Portrait of a Lady.

MILLET, F. D., born in Massachusetts.

212. A Handmaiden. (Owner, Geo. T. Seney.)
213. A difficult Duet. (Owner, Mrs. Raymond.)

MILLER, Charles Henry, born at New York, N. Y. Student at National Academy of Design, and Royal Academy of Bavaria. Recompenses : Gold Medals, Boston, New Orleans and Philadelphia.

214. A Bouquet of Oaks, near Jamaica, Long Island, N. Y.

MINOR, Robert C.

215. Close of Day. (Owner, W. T. Evans.)

MOELLER, L.

216. A Doubtful Investment.

MONKS, ROBERT HATTON, born at Boston, Mass. Masters: Bouguereau and T. Robert-Fleury.

217. A Grey Day.

MOORE, H. HUMPHREY.

218. Japanese Views.
219. Japanese Views.
220. Japanese Views.

MORAN, EDWARD, born at Bolton, England. Masters: James Hamilton and Paul Weber. Recompenses: Medal, Palette Club, Centennial Exposition, 1876.

221. New York City from the Channel.

MOSLER, HENRY, born at New York. Master: M. Hébert. Med. 3rd cl. 1888.

222. The last Sacraments. (Owner, Louisville, Polytechnic Ass'n.)
223. Harvest Festival. (Owner, Mrs. Haydock, Cincinnati.)
224. The last Moments.
225. The young Bag-piper. (Owner, O. J. Wilson, Cincinnati.)
226. New Year's Morning. (Owner, Phil D. Armour, Chicago.)

The Return. (To be seen at Luxembourg Museum.)

NETTLETON, WALTER E.

227. Winnowing; Finistère.

NEWMAN, CARL, born at Philadelphia, Pa.

228. Portrait of Mme X.

NICOLL, JAMES CRAIG, born at New York, N. Y. Master: M. F. H. de Haas. Recompense: First Class, New Orleans Exposition.

229. Sunlight on the Sea.

O'HALLORAN, Miss A.

230. Study.
231. Cottage on the Dutch downs.

PARKER, Stephen Hills, born at New York, N. Y.

232. Father Gaspard.

PARTON, Arthur, born at Hudson, N. Y.

233. In the month of May. (Owner, W. T. Evans.)
234. Winter on the Hudson. (Owner, American Art Association.)

PATRICK, J. Douglas.

235. Brutality.

PEARCE, Charles Sprague, born at Boston, Mass. Master: M. Bonnat. Honorable mention, Salon 1881, 3rd cl. gold med. 1883. Gold med. 2nd cl. 1888 Munich; grand med. of honor Ghent, 1886.

236. Shepherdess.
237. Evening.
238. Portrait of Mme P.
239. Melancholy.

PEARCE, Louise Catharine, born at Paris, France. Master: Chas. Sprague Pearce.

240. Japanese nick-nacks.

PERRY, Jr., E. Wood, born at Boston, Mass. Master: T. Couture.

241. Mother and Child.

PETERS, Clinton, born at Baltimore, Md. Masters: Boulanger, Lefebvre, Gérôme, Collin.

242. Portrait of Doctor G. J. B.

PLUMB, Henry G., born at Sherburne, N. Y. Master: Gérôme.

243. The Orphans.

PORTER, Benjamin Curtis, born at Melrose, Mass.

244. Portrait of a Lady. (Owner, Mrs. Chas. Berryman.)

POTTHAST, EDWARD, born at Cincinnati, Ohio. Master: M. Cormon.

245. Study: A young Britany Girl.

REID, ROBERT.

246. Study.

REINHART, CHARLES STANLEY, born at Pittsburgh, Pa.

247. Washed ashore.
248. Awaiting the Absent.
249. Rising tide.
250. An old Woman.
251. The Sea.
252. Fog Effect.

REMINGTON, FREDERICK, born at Canton, N. Y.

253. A Lull in the Fight. Descriptive of an affair on the Staked Plain (Texas), in 1861, as told by a Comanche " brave " who participated.

RENOUF, A. VINCENT, born at New York, N. Y. Masters: Max Thedy and Frillhof Smith.

254. Portrait.

RICE, WILLIAM, M. J., born at Brooklyn, N. Y. Masters: Carolus-Duran and J. Carroll Beckwith.

255. Portrait.

RICHARDS, SAMUEL, born at Spencer, Owen County, Indiana. Masters: Straehuber, Benczur. Gysis, Lœfftyz.

256. Evangeline.

RICHARDS, WILLIAM T., born at Philadelphia, Pa.

257. After a Storm.

ROBBINS, HORACE W., born at Mobile, Ala. Master: James M. Hart.

258. A Mountain Road.

ROBINSON, THEODORE.

259. The Bread Carrier.
260. The Forge.

RYDER, PLATT P., born at Brooklyn, N. Y. Master: Léon Bonnat.

261. A Game at Marbles. (Owner, W. T. Evans.)

SARGENT, JOHN S., born at Florence, Italy. Master: M. Carolus-Duran. 2nd med. Salon, Paris.

262. Portrait of the Misses B.
263. Portrait of Mrs. W.
264. Portrait of the Misses V.
265. Portrait of Mrs. R.
266. Portrait of Mrs. S.
267. Portrait of Mrs. K.

SAWYER, R. D., born at Watertown, N. Y. Masters: Boulanger and Lefebvre.

268. A Normandy Idyl.

SHERWOOD, ROSINA EMMET, born at New York, N. Y. Master: Wm. M. Chase.

269. Portrait. (Owner, J. N. A. Griswold.)

SHIRLAW, WALTER, born in Scotland.

270. Rufina.

SIMMONS, EDWARD EMERSON, born at Concord, Mass. Masters: Boulanger and M. J. Lefebvre.

271. The Farmer.
272. Night.
273. Study.

SMITH, DE COST, born at Skaneateles, N. Y. Masters: Boulanger, Lefebvre, Beckwith, etc.

274. Conflicting Faiths, representing an Iroquois holding a Shamanic mask, symbolizing Paganism, and a priest with a Rosary, symbolizing Christianity during the period of the French Jesuit missions among the Iroquois in Canada in the XVIIIth century.

SONNTAG, WILLIAM L., born at Cincinnati, O.

275. A Mountain Stream from the foot of Mt. Carter, N. H.

STEWART, JULIUS L., born at Philadelphia, Pa. Masters: Zamacoïs, Gérôme and R. de Madrazo.

276. A Court at Cairo.
277. The Seine at Bougival.
278. A Hunt Ball.
279. A Hunt Supper.
280. Portrait of the Baroness B. M.
281. Portrait of the Baroness de B.

STOKES, FRANK WILBERT, born at Nashville, Tenn. Masters: Boulanger, Gérôme and J. Lefebvre.

282. The Orphans.
283. A Good Sermon.

STORY, JULIAN RUSSELL, born at Walton-on-Thames, England.

284. The Black Prince finding the dead body of the King of Bohemia, after the battle of Crecy (1346).
285. Portrait; reign Louis XVI.
286. Portrait of my father.

STRICKLAND, CHARLES HOBART, born at New York, N. Y. Masters: Bouguereau and Fleury.

287. Portrait of Miss X.

TARBELL, EDMUND C., born at West Groton, Mass. Masters: Boulanger and Lefebvre. Recompense: Silver Medal, Boston, Mass., 1887.

288. Portrait of Mme T. (Owner, Mme T.)

THAYER, ABBOTT HENDERSON, born at Boston, Mass. Master: Gérôme.

289. Winged Figure. (Owner, A. A. Carey, Boston.)

THERIAT, CHARLES, born at New York, N. Y. Masters: Boulanger and Lefebvre.

290. Souvenir of Biskra.

THOMPSON, WORDSWORTH, born at Baltimore, Md. Master: M. Charles Gleyre.

291. A New England Farm House.

THROOP, FRANCES HUNT, born at New York, N. Y. Masters: J. Carroll Beckwith and Alfred Stévens.

292 Portrait of Miss C.

TIFFANY, LOUIS C., born at New York, N. Y.

293. Carrying the Boat at Seabright.

TOMPKINS, FRANK H., born at Hector, N. Y.

294. Memories.

TRACY, JOHN M.

295. Chesapeake Bay Dog retrieving a Wounded Goose.

TRUESDELL, G. S.

296. The Shepherd and his flock.

TURNER, CHARLES Y, born at Baltimore, Md. Masters: J. P. Laurens, M. Munckacsy, Léon Bonnat.

297. The days that are no more.

TYLER, JAMES G., born at Oswego, N. Y. Master: A. Cary Smith.

298. Off Cape Ann.

ULRICH, CHARLES F.

299. In the Land of Promise. (Owner, W. T. Evans.)

VAIL, EUGENE L., born at St. Malo, France. Masters: Cabanel, Collin, Dagnan-Bouveret. Med. 3rd cl. 1888.

300. Ready About.
301. Fishing harbour.
302. The Widow.
303. On the Thames.

VAN BOSKERCK, ROBERT W., born in New Jersey. Masters: A. H. Wyant, R. S. Gifford.

304. A Rhode Island River.

VEDDER, ELIHU, born at New York, N. Y.

305. The Fates gathering in the Stars.
306. The Last Man.
307. The Death Cup.
308. Love always present.

VOLK, DOUGLAS.

309. The Puritan Captives.
310. After the Reception.

VONNOH, ROB'T WILLIAM, born at Hartford, Conn. Masters: Boulanger and Lefebvre. Gold medal for portraits at Mechanic's Institute, Mass.

311. Studio Comrade.
312. Revery.

WALDEN, LIONEL, born at Norwich, Conn. Master: Carolus-Duran.

313. The Steamer "Shah" coming down the Thames.
314. Fog on the Thames.

WALKER, HORATIO.

315. A Stye.

WARD, EDGAR M., born in Ohio.

316. The Tack Workers.
317. The Rest.

WEBB, J. LOUIS, born at Washington, D. C. Master: W. M. Chase,

318. A Studio Corner.

WEEKS, E. L., born at Boston, Mass. Master: M. Bonnat.

319. The last Journey; Souvenir of the Ganges.
320. Hindoo marriage Procession; Ahmedabad.

321. The Rajah of Jodhpare.
322. Sacred Lake; Study.
323. The Mosque of Vazin Khan, Lahore; Study.

WEIR, J. ALDEN, born at West Point, N. Y. Master: G. L. Gérôme. Recompense: Honorable Mention, Paris Salon '82.

324. Preparing for Christmas.
325. Lengthening Shadows. (Owner, W. T. Evans.)
326. Portrait of Artist's Child.

WHITEMAN, SAMUEL EDWIN, born at Philadelphia, Penn. Masters: Boulanger and M. J. Lefebvre.

327. Moonrise.

WHITTREDGE, WORTHINGTON, born in Ohio. Recompense: 1st class Medal, Centennial Exposition, 1876.

328. The Old Road to the Sea. (Owners, Messrs. Pettus and Curtis).
329. A Brook in the Woods.

WICKENDEN, ROBERT JOHN, born at Rochester, England. Masters: Carroll Beckwith, Chase, Hébert and Merson.

330. Noon.

WIGHT, MOSES, born at Boston, Mass. Masters: Hébert and Bonnat,

331. Portrait of Mrs. W.

WILES, IRVING R., born at Utica, N. Y. Master: Carolus-Duran.

332. Portrait of a Lady.

WITT, J. H.

333. Planning an Apple Cutting.

WOOD, OGDEN, born at New York, N. Y. Masters: School of Fine Arts and M. Van Marcke.

334. Pasture at the Sea-Side.

WOOD, THOMAS WATERMAN, born at Montpelier, Vt.
335. The Difficult Text. (Owner, T. N. Vail.)

WYANT, ALEXANDER H., born in Ohio. Master : Gude.
336. Landscape. (Owner, C. H. de Silver.)

CLASS 2.—*Paintings of different kinds, and Drawings.*

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ABBEY, EDWARD A., born in Philadelphia, Pa.
337-342. A Love Song. (Six pieces.)
343. Why can'st thou not as others do?
344, 345. With Jockey to the fair. (Two pieces.)
346, 347. Harvest Home. (Two pieces.)
348, 349. Phillada. (Two pieces.)
350, 351. Sally in our Alley. (Two pieces.)
352. Never loved thee more.

BLASHFIELD, EDWIN HOWLAND, born at New York, N. Y. Master: Léon Bonnat.
353. Chivalry. (Owner, Century Co.)
354. The Gladiators. (Owner, Century Co.)
355. The Vigil at Arms. (Owner, Scribner's Magazine.)
356. The Angels in the Miracle Play. (Owner, Scribner's Magazine.)

BLUM, ROBERT F., born at Cincinnati, O. Recompense: Gold medal, Am. Art Ass'n.
357. The Modern Etcher.
358. The Ballet Girls.
359. Table d'Hôte.
360. Part of an old Story. (Owner, The Centurq Co)

COX, KENYON, born at Warren, Ohio. Master: J. L. Gérôme and Carolus-Duran.

361. Bust of J. A. Weir.
362. Portrait Bust.
363. Follower of St. Joseph.
364. Reading in the Chapter Room.
365. In the Smithy.
366. At Work.

COXE, REGINALD CLEVELAND, born in Baltimore, Md. Master: Léon Bonnat.

367. Gloucester Harbor.
368. Passing Squall.
369. Return of the Feet.
370. In the Narrows.

DRAKE, WILLIAM H., born at New York, N. Y. Student at Art Students' League, New York, N. Y.

371. Rippling Waters, representing a forest stream.
372. Excursion Party. (Owner, Century Co.)
373. The Two Friends. (Owner, Century Co.)
374. A Fishing Party. (Owner, Century Co.)
375. Washington's Escape. (Owner, Century Co.)

FARRER, HENRY.

376. Moonrise.

FOOTE, MARY HALLOCK, born at Orange County N. Y.

377. Cinching up. (Owner, Century Co.)
378. Looking for camp. (Owner, Century Co)

GIBSON, M. HAMILTON.

379. Afternoon Pastorale.
380. An Upland Runnell.
381. My backyard Oasis.
382. An Evening Primrose.
383. The Penitent.

GREATOREX, Miss ELIZA, born in Ireland.

384. St. Malo; Crypt at Mount St. Michael; Marano, Florence.

GREATOREX, Miss KATHLEEN H., born at New York, N. Y. Master: J. J. Henner.

385. "Gorgeous Flowerets in the Sunlight shining" (Longfellow).

HASKELL, IDA C., born in California. Masters: Boulanger and M. Courtois.

386. Portrait of Mrs. H.

HOMER, WINSLOW, born at Boston, Mass.

387. Looking over the Cliff. (Owner, Mrs. Schuyler van Rensselaer, New York.)

INNESS, GEO., JR.

388. My Studio.
389. Tallyho.
390. On the Trail.

KLUMPKE, MISS ANNA E., born at San Francisco, Cal. Masters: T. Robert-Fleury, Bouguereau and de Vuillefroy.

391. Marguerite at the wheel.

LOW, WILLIAM H.

392. Ode and Sonnets.
393. Ode to Melancholy.
394. Ode to Psyche.
395. Ode on a Grecian Urn.
396. Bards.
397. Shut from the Busy World of more incredulous.
398. The Guarded Nymph.
399. Into the Green Recess of wood.
400. By a clear Pool.
401. She bathes unseen.
402. The Flight of Lamia.
403. Last Sonnet of Keats.

MORAN, THOMAS, born at Bolton, England. Master: Jas. Hamilton. Recompense: Medal 1st cl., Centennial Exposition, 1876.

404. Mount of the Holy Cross.

NICOLL, JAMES CRAIG, born at New York, N. Y. Master: M. F. H. de Haas. Recompenses: First class, New Orleans Exposition, etc.

405. Night.

PENNELL, JOSEPH.

406. Christ Church Gateway, Canterbury.
407. Exchequer Gate, Lincoln Cathedral.
408. Lincoln Cathedral.

PLATT, C. A.

409. Quai at Honfleur.

REDWOOD, A. C.

410. Line of Battle at Malvern Hill.
411. Washington Artillery.

REINHART, CHAS. S., born at Pittsburgh, Pa. Honorable Mention 1887. Temple Gold Medal 1888.

412. Flirtation.
413. Shepherd.
414. They look rich.
415. The Painter absorbed in his Art.
416 Asleep.
417. The old Fisherman.
418. The Spy-glass.
419. Shrimp-fisher.
420. The Englishman.
421. Three old Ladies.
422. Strapping my Valise.
423. Headwaiter.
424. The Gust of wind.
425. Portrait of Charles Dudley Warner.
426. At Fortress Monroe.
427. Man and Dog.

428. What sort of weather?
429. Electric Shock.
430. A Kissing-gate.
431. The Five o'clock Tea.
432. The Reichstag. (Group of Sketches.)

REMINGTON, FREDERICK, born at Canton, N. Y.

433. An Episode, Opening up a Cattle Country.
434. A Deep Ford.
435. Cutting out a Steer.
436. Broncos and Timber Wolves.

RICHARDS, WILLIAM T., born at Philadelphia, Pa.

437. Headlands, Narragansett Bay.

ROLSHOVEN, JULIUS.

438. Water-carrier; Venice.
439. Portrait of Miss R.
440. A Good Cigarette.

SHERWOOD, ROSINA EMMET, born at New York, N. Y. Master : Wm. M. Chase.

441. September.
442. Phyllis.

SMITH, F. HOPKINSON.

443. Near Neighbors at Ulm.
444. A Dutch Canal.

STEWART, JULIUS L., born at Philadelphia, Pa. Masters : Zamacoïs, Gérôme and R. de Madrazo.

445. Portrait of Mrs. B.
446. Portrait of Miss S.

WICKENDEN, ROBERT JOHN, born at Rochester, England. Masters : Carroll Beckwith, Chase, Hébert and Merson.

447. Côtes Fleuries (Isle of Jersey).

WEIR, J. ALDEN, born at West Point, N. Y. Master : G. L. Gérôme. Recompense : Honorable Mention, Paris Salon 1882.

448. Consolation.
449. Still Life. (Owner, H. C. Howells.)

WHITTEMORE. WILLIAM J., born at New York, N. Y.

450. October.

WILES, IRVING R., born at Utica, N. Y. Master : Carolus-Duran.

451. Sewing Class.
452. Modeling Class.
453. Negative Retouching Class.

CLASS 3.—*Sculpture and Engravings on Medals.*

ADAMS, S. HERBERT, born at West Concord, Vt. Master : M. A. Mercié. Recompense: Honorable mention, Salon 1888.

454. Young girl; bust, plaster.

BARTLETT, P. W., born at New Haven, Conn. Masters : Frémiet, Cavelier, Gaudez. Recompense: Honorable mention, Salon, 1887.

455. Bohemian; bronze.

FRENCH, DANIEL C.

456. Bronze Bust of Ralph Waldo Emerson.

HELD, CHARLES, born in the Canton of Geneva. Switzerland. Master : Charles Held.

457. In glass case :
President Carnot; Actrice; Egyptian woman; Landscape in Auvergne; Hunting dogs; Renaissance flowers.

KITSON, H. H., born at Huddersfield. Master: Bonnassieux.

458. Mayor Doyle; statue, plaster.
459. Miss R...; bust, marble.

MAC MONNIES, Frederick, born at Brooklyn, N. Y. Masters: Saint-Gaudens, Falguière and Mercié.

460. Medallions; plaster.

RUGGLES, Miss Theo. A., born at Brookline, Mass.

461. Bust of a child; bronze.
462. On the shore of the Oise; plaster.

STORY, Waldo, born at Paris, France.

463 The fallen Angel; group, marble.

STORY, Wm. W., born at Salem, Mass.

464. Salomé; marble, statue.

WARNER, Olin L., born at Suffield. Conn. Master: Jouffroy.

465. Bronze bust of J. Alden Weir.
466. Small bronze bust of Mr. Daniel Cottier.
467. Marble bust of baby Rosalie Warner.
468. Three bronze medallion portraits.

WUERTZ, Emile, born at New York, N. Y. Masters: A. Mercié and A. Rodin.

469. Medallon; plaster.

CLASS 4.—*Architectural Drawings and Models.*

McKIM, MEAD & WHITE, 57 Broadway, New York, N. Y.

470. Perspective of Bates Hall (Reading Room), New Public Library, Boston, Mass.

CLASS 5.—*Engravings and Lithographs.*

AMERICAN SCHOOL OF WOOD ENGRAVING.
COLLECTIVE EXHIBIT.

AIKMAN, W. M., New York.

471. Sheep.
472. Landscape by Parsons.

BERNSTROM, VICTOR, New York.

473. Port Neuf.
474. The Spoils.
475. The dead Matador.
476. The Otter Hunt.
477. Music Party.
478. Retribution.
479. The Mystery of Life.

CLOSSON, W. B., Boston, Mass.

480. Golden Rod.
481. Paolo and Francesca.
482. Study of Head, by Fuller.
483. Subject by Mary Hallock Foote.
484. Still Life, L. Bouvier.
485. The Listeners.
486. The Quadroon Girl.

COLE, T., New York.

487. Angel from the Morgan Tomb.
488. The Entombment.

DAVIDSON, H., New York.

489. Aus der Ohe.
490. An Afternoon at the Ranch.
491. Canterbury Cathedral.
492. Israel.

DAVIS, JOHN. P., New York.

493. A Point in Lake Placide.
494. How Sol came through.
495. Joe Jefferson as Bob Acres.
496. Among the Old Poets.
497. The Cobblers

FRENCH, FRANK, New York.

498. A Negress of Algiers.
499. Under the Mistletoe.
500. A Christmas Vigil.
501. An English Deer Park.
502. An Algerine.
503. Lacing the Sandal.
504. Landscape.
505. In the Enemy's Country.

JOHNSON, T., New York.

506. Portrait of a Child.
507. Alphonse Daudet.
508. Head of a Man, by Rembrandt.
509. Lord Alfred Tennyson.
510. Aesop, by Velasquez.
511. Pasteur and grand daughter.

KING, F. S.

512. Knowledge is Power.
513. A Difference.
514. The Sybil.

KINGSLEY, Elbridge, New York.

515. Birch Trees.
516. Landscape, Diaz.
517. Midsummer, Daubigny.
518. Morning.
519. The Flying Dutchman.

KRUELL, G., New York.

520. A Russian Jew.
521. A Russian Peasant.
522. Coaxing the Chief.
523. A Soul Drama.
524. Darwin.
525. Lincoln.
526. Rent Day.
527. A Portrait.

LINDSY, Albert M., Philadelphia.

528. Neighbors on the Terrace.
529. Presentation of a Circus to a Spanish Town.
530. Discovery of Gold in Australia.

MULLER, R., New York.

531. Adoration of the Magi.
532. St. Vincent de Paul.
533. Chantilly, La Vierge d'Orléans.
534. Jesus Christ at the Last Supper.
535. I'm perfectly Happy.

POWELL, Caroline A., New York.

536. The Three Marys.
537. The Lady and Horse.
538. London Underground Railway Station.
539. A follower of St. Joseph.
540. A Russian Post-station.
541. La Rose.

PUTNAM, S. G., New York.

542. Identity.
543. A Waterfall by Moonlight.

544. A Sheep Pasture.
545. Buckaneers seizing a Ship.
546. Three Children.

SMITHWECH, J. G., New York.

547. Winter.
548. A Goat Pasture.

STANDENBAUR, R., New York.

549. General Grant.
550. General Lew Wallace.
551. Chauncy M. Depew.
552. Dr. Taylor.

TINKEY, J., New York.

553. Exchanging Confidences.
554. In the New Forest.
555. The Beaver Dam.
556. Sleeping Poppies.
557. Springhaven.

VARLEY, ROBERT, New York.

558. The Bells of St. Anne.
559. The Rehearsal.
560. The Burial Ground.

WELLINGTON, F., New York.

561. A Day in June.
562. Capture of Grenada.
563. Amelie Rives.
564. A May day Idyl.
565. Pinks, L. Bouvier.
566. Still Life, L. Bouvier.
567. Miles Standish's Challenge.

WOLF, HENRY, New York.

568. David.
569. Owl catching a Mouse.
570. Wood Interior.
571. The Roadside.
572. A New England Peddler.

SECOND GROUP.

Education and Instruction—Apparatus and Processes used in the Liberal Arts.

CLASS 6.—*Education of young children. Primary Instruction. Instruction of adults.*

—

AMERICAN ASYLUM FOR THE EDUCATION OF THE DEAF & DUMB, Hartford, Conn., Job Williams, Principal.
Copies of 71st and 72nd Annual Reports.

BALTIMORE (MD.) PUBLIC SCHOOLS, Henry A. Wise, Superintendent.
Six volumes of reports of the Superintendent of public schools. Three volumes of Rules for school Commissioners. The public school Directory. Blanks used in the administration of the school.

BETZ, CARL, Kansas City, Missouri.
Text-books and apparatus for Gymnastics.

BOARD OF EDUCATION, Brooklyn, N. Y., Calvin Patterson, Superintendent.
Annual Report of Superintendent for 1887.

BOARD OF EDUCATION, Cincinnati, Ohio, E. E. White, Superintendent.
Two Annual Reports, 1886 and 1887.

BOARD OF EDUCATION, Grand Rapids, Mich., F. M. Kendall, Superintendent.

Volume of Annual Reports. Two pamphlets on "Physiology and Hygiene for the public schools". "Special Geography of Michigan." General Blanks of administration.

BOARD OF EDUCATION OF WISCONSIN, Madison, Wis. J. B. Thayer, State Superintendent.

One volume of school laws and one volume of laws relating to school libraries.

Proceedings of the Board of Regents of normal schools.

Report of the Board of Regents for the University of Wisconsin.

Two catalogues of public school libraries.

Annual catalogues of the University of Wisconsin.

Annual catalogues of the State normal schools at River Falls, Milwaukee, Platteville, Oshkosh and Whitewater, Wisconsin.

Report of the State Superintendent for 1887 and 1888. Blanks of administration.

BOSTON (MASS.) PUBLIC SCHOOLS, Calvin P. Seaver, Superintendent.

Text-books, Reference books, Drawings, Casts, Furniture and students work from the public schools.

CAMBRIDGE (MASS.) PUBLIC SCHOOLS, Francis Cogswell, Superintendent.

Two volumes of Reports of the school Committee and Superintendent of public schools.

CHAMBERSBURG (PA.) PUBLIC SCHOOLS, W. H. Hockenberry, Superintendent.

Annual Statement and Report of the Superintendent, for 1887-'88. Blanks used in administration of schools.

CHARLESTON (W. Va.) FREE SCHOOLS, Richard Gaill, Superintendent of Free schools.
One biennial Report.

CHICAGO (ILLINOIS) PUBLIC SCHOOLS, George Howland, Superintendent.
Eight Annual Reports of Board of Education 1880-'87. Report of course of study. Physical exercices, etc.

CHOLLET, EUGENE, Fort Lee, New Jersey.
Volapuk music Book.

CHRISTIANSEN INSTITUTE, Brooklyn, N. Y., Mrs .E. C. Stacker, Principal.
Circulars of information and a collection of scholars' kindergarten work mounted on cards.

CLEVELAND (OHIO) PUBLIC SCHOOLS, L. W. Day, Superintendent.
Annual Reports of Superintendent, for 1886 and 1887. Courses of study. Manuals of the schools.

COLORADO INSTITUTION FOR THE DEAF & BLIND, Colorado Springs, Col., D. C. Dudley, A. B., Superintendent.
Map of Colorado Springs, seven photographs, descriptive volume, and catalogue. Scholars work : lace, carving, etc.

COLUMBUS (OHIO) PUBLIC SCHOOLS, R. W. Steavenson, Superintendent.
Nine volumes of Annual Reports 1880 to 1888. Two volumes school Laws. Cards of committees.

COMMISSIONERS OF SCHOOLS OF MISSOURI, Jefferson City, Mo.
Three volumes of the Annual Reports of the Board.

CONVENT OF THE GOOD SHEPHERD, Newport, Ky.
Scholars work : writing and fancy work.

COOPER UNION, New York City, George W. Plympton, A. M., C. E., Director.

Copies of the 9th Annual Report of the board of trustees. Three portfolios of drawings and twelve oil paintings, all scholars work.

DAY AND HOME SCHOOL, Mobile, Ala., Mrs. H. F. Wilson, Principal.

Catalogue and essay on "Progress in Education" by Mrs. H. F. Wilson. References. Blanks used in administration of the school.

DEPARTMENT OF PUBLIC INSTRUCTION OF ARKANSAS, Little Rock, Arks., W. I. Thompson, Superintendent.

Five Biennial Reports 1879-'88 inclusive.

DEPARTMENT OF EDUCATION OF SOUTH CAROLINA, Columbia, S. C., James H. Rice, State Supt. of Education.

Four volumes of annual Reports of the Superintendent and one volume of School Laws.

DEPARTMENT OF PUBLIC INSTRUCTION OF CALIFORNIA, Sacramento, California, M. R. Beard, Superintendent.

Ten volumes reports of Superintendent of Public Instruction. One volume school laws. Report of trustees of Normal Schools. List of Library books. Two catalogues of State Normal Schools at San José and Los Angeles. Text-Books used in schools. General Blanks.

DEPARTMENT OF PUBLIC INSTRUCTION OF DAKOTA, E. A. Dye, Superintendent.

Six annual reports of the Superintendent of Public Instruction and volumes of rules, laws and courses of study.

DEPARTMENT OF PUBLIC INSTRUCTION OF FLORIDA, A. J. Russell, State Superintendent, Tallahasse, Florida.

School Laws, Annual Reports and Catalogues of

State Agricultural College. Reports of the President of Rollin's College, of the State Normal School for Colored Students, of the Blind and Mute Institute, of the State Normal School for White Students. Rules, regulations and blanks of administration.

DEPARTMENT OF PUBLIC INSTRUCTION, IOWA, Henry Sabin, Superintendent, Des Moines, Iowa.

Five volumes of Iowa Documents 1888. Ten volumes of School Law Decisions 1888. Six annual reports. Census of Iowa 1835-1880 and 1885. One volume of the Secretary's blank reports, one volume of the Treasurer's blank reports and one volume of the County Superintendent's blank reports. One volume each of Agricultural and Horticultural reports for 1887. Blank certificate, diploma and general blanks used in administration of the office.

DEPARTMENT OF PUBLIC INSTRUCTION OF NEBRASKA, Lincoln, Neb., G. B. Lane, State Superintendent.

Volume of Annual Report for 1887-'88. Volume of School Laws and a Manual for Teachers. Catalogue of the State Normal School.

DEPARTMENT OF PUBLIC INSTRUCTION, Carson City, Nevada, C. S. Young, Superintendent.

Biennial reports for 1885 to '88. Reports of State Board of Regents.

DEPARTMENT OF PUBLIC INSTRUCTION OF NEW HAMPSHIRE, Manchester, N. H., J. W. Paterson, Superintendent.

Two volumes of annual reports 1887-88.

DEPARTMENT OF PUBLIC INSTRUCTION, Salem, Oregon, E. B. Mc. Elroy, Superintendent.

Five volumes school-laws. Blanks. The Resources

of Oregon. Five reports of the School for Deaf-mutes. Six reports of the School for the Blind.

DEPARTMENT OF PUBLIC INSTRUCTION, STATE OF RHODE ISLAND, Providence, R. I.

Nine volumes reports 1880 to 1888. One volume school manuals. General blanks.

DEPARTMENT OF PUBLIC INSTRUCTION OF TENNESSEE, Nashville, Tenn., F. M. Smith, State Superintendent.

Three volumes of annual reports of the State Superintendent.

DEPARTMENT OF PUBLIC INSTRUCTION, WASHINGTON TERRITORY, J. C. Lawrence, Superintendent.

Report of the Superintendent for 1887.

ELIZABETH (N. J.) PUBLIC SCHOOLS, J. A. Dix, Superintendent.

One portfolio containing a map of the city, course of study, students' work and administration blanks.

EVANSVILLE (IND.) PUBLIC SCHOOLS, J. W. Layne, Superintendent.

Two Annual reports of the Superintendent.

FORT WORTH (TEXAS) PUBLIC SCHOOLS, Alexander Hogg, Superintendent.

A volume by the Superintendent: " The Railroad in Education ". Scholars' work. Reports of the Supt. and blanks of administration.

INDIANAPOLIS (IND.) PUBLIC SCHOOLS., L. H. Jones, Superintendent.

Reports of Superintendent of Public Schools for 1887-'88. School manual of 1889.

INSTITUTE OF OUR LADY OF THE SACRED HEART, Washington Heights, Ill., Mother Pacifica, Principal.

Students' work: maps' writing and free hand drawing. Catalogue and blanks of administration.

JOHNSTON (R. I.) PUBLIC SCHOOLS.
Report of the School Committee.

KANSAS CITY (MISSOURI) PUBLIC SCHOOLS, J. M. Greenwood, Superintendent.
Three annual reports of the Superintendent of Public Schools 1886-'88.

LEWISTON (MAINE) PUBLIC SCHOOLS, A. M. Edwards, Superintendent.
The course of study and report of the Superintendent of Public Schools for 1888.

MARIANNA (ARKANSAS) INSTITUTE, Marianna, Arks., Thomas A. Futrall, President.
Catalogues of the school. Scholars' work : writing books.

MINNESOTA SCHOOL FOR DEAF, Fairbault. Minn., J. E. Noyes, President.
Circulars of informations, history of the College, course of study, views of the buildings, drawings by students and copies of " The Companion ".

MOLINE (ILLINOIS) PUBLIC SCHOOLS, H. W. Russell, Superintendent.
Scholars' work : Two portfolios of sewing, six frames of geographical clay modelling, six clay panel models and three boxes of plain clay models. Fourteen paper boxes, twelve volumes of drawings. Reports of the public schools of Moline 1878-'88.

MONSON ACADEMY, Monson, Mass., Dana, M. Dustan, Principal.
Annual catalogue, 1888-'89.

MYSTIC VALLEY INSTITUTE, Mystic Bridge, Conn., John K. Bucklyn, A. M., LL. D., Principal.
One portfolio containing circulars of information and scholars' work. examination papers. etc.

NATIONAL BUREAU OF EDUCATION, Washington, D. C.
Proceedings of National Educational Association. Reports and monographs.

NATIONAL WOMAN'S CHRISTIAN TEMPERANCE UNION, Josephine R. Nichols, Superintendent for Fairs and Expositions, 161 La Salle St., Chicago, Ill.
Scientific Temperance Books for Schools. Articles for training girls in Kitchen Garden Work. Temperance libraries and publications.

NATIONAL DEAF MUTE COLLEGE, Washington, D. C.
Two Maps of the grounds of the College. Annual reports and Catalogues.

NEWBURGH (N. Y.) PUBLIC SCHOOLS, R. V. K. Montfort, Superintendent.
Annual report of Superintendent of Public schools.

NEW HAVEN (CONN.) PUBLIC SCHOOLS, S. T. Dutton, Superintendent.
Two volumes reports of Board of Education. One volume, courses of study, blanks, etc.

NEW YORK HOUSE OF REFUGE, SCHOOL DEPARTMENT, Randall's Island, New York.
Writing, map drawing, accounts, and problems, by the scholars.

NEW YORK CITY PUBLIC SCHOOLS, John Jasper, Superintendent.
Courses of study in Grammar, Primary and Evening Schools.

OHIO COMMISSIONERS OF SCHOOLS, Columbus, Ohio.
Two volumes of the annual reports of the Board for 1887-'88.

OMAHA (NEBRASKA) PUBLIC SCHOOLS, Henry M. James, Superintendent.
Annual reports. Rules of Board of Education. List of text-books. Courses of study. Blanks.

OREGON SCHOOL FOR DEAF MUTES, Salem, Oregon, Rev. P. S. Knight, Superintendent.

Three volumes of Biennal Reports of the Superintendent for 1884, 1886 and 1888. Volume of "The Sign" and a photograph.

OSKALOOSA (IOWA) PUBLIC SCHOOLS, Orion C. Scott, Superintendent.

Annual reports of Superintendent of Public Schools 1887 and 1888. Manuals. General Blanks. Geographical work on boards, six specimens.

PATTERSON, CALVIN, Brooklyn, N. Y.

Four annual reports of Superintendent of Public Schools for 1883, '84, '85 and '86.

PENN SCHOOL, S. Helena Island, South Carolina.

Portfolio of Blanks, Views, Scholars' work, etc.

PENNSYLVANIA ORAL SCHOOL FOR THE DEAF, Scranton, Pa., Emma Garrett, Principal.

The Fourth Annual Report of the Principal.

PERKIN'S INSTITUTION AND MASSACHUSETTS SCHOOL FOR THE BLIND, Boston, Mass., M. Anagnos, Superintendent.

Thirty-five specimens of scholars' work. Fifty-two specimens of Kindergarten work. Photographs.

PITTSBURG (PA.) PUBLIC SCHOOLS, George J. Luckey, Superintendent.

One frame containing Photographs of groups of students. Thirteen volumes of scholars' work in Arithmetic and Language from Grades 1 to 7. Two volumes of scholars' work from the Normal School. One volume of scholars' work from the High School.

PROVIDENCE (RHODE ISLAND) PUBLIC SCHOOLS, Horace S. Tarbel, Superintendent.

Six reports of School Committees. Twelve manuals.

RHODE ISLAND SCHOOL FOR THE DEAF, Providence, R. I., Anna M. Black, Principal.
Seven Annual Reports of the Principal.

ROCHESTER (N. Y.) PUBLIC SCHOOLS, S. A. Ellis, Superintendent.
Six volumes of Annual Reports of the Superintendent of Public Schools 1882 to '88. Five volumes of the Proceedings of the Board of Education. Scholars' work: Examination Questions and Papers.

ROWLAND HALL SCHOOL, Salt Lake City, Utah, Miss J. H. Van Rensselaer, Principal.
Scholars' work in Drawing and Botany.

ST. PAUL (MINNESOTA) PUBLIC SCHOOLS, S. S. Taylor, Superintendent.
Report of Superintendent of Public Schools 1887-'88.

SANDUSKY (OHIO) PUBLIC SCHOOLS, Henry A. Balcam, Superintendent.
Nine volumes of Annual Reports of the Superintendent of Public Schools, and four volumes of Scholars' work in Examinations.

SCHOOL FOR YOUNG LADIES, 429 Carondelet st., New Orleans, La., Misses H. A. and H. V. Dykers, Principals.
Eight Photographs of rooms and Students. Scholars' work: Maps, Charts, Drawings, Essays and Writing books. Circulars of Information.

SEVEN ISLANDS SCHOOL, New Canton, Va., Philip, B. Ambler, Principal.
Announcement for 1888-'89.

SILVER STREET KINDERGARDEN, San Francisco, Cal., Mrs. Kate D. Wiggin, Principal.
List of Members of the California Froebel Society. Annual Statements. Students' work in drawing and writing.

SOCKANOSSET SCHOOL FOR BOYS, Howard, R. I., Franklin H. Nibecker, Superintendent.
Files of " Howard Times " and job printing printed by boys. Clothes and brushes made by boys. Photographs of boys and buildings. Writing books and " Program of Course of study ".

SUPERINTENDENT OF PUBLIC INSTRUCTION OF COLORADO, Leonidas S. Cornell, Denver, Colorado.
Four Biennal Reports, 1882, '84, '86, '88. Education in Colorado 1861 to 1885.

STATE DEPARTMENT OF EDUCATION, State of Alabama, Salomon Palmer, Superintendent.
The 33rd Annual Report of the State Superintendent.

STATE DEPARTMENT OF PUBLIC INSTRUCTION, Topeka, Kans., J. H. Lawhead, State Superintendent.
The 6th Biennial Report.

SUPERINTENDENT OF EDUCATION OF MARYLAND, M. A., Newell, Baltimore, Maryland.
Articles of Clothing made by Normal School Students. Scholars' work in Drawing and Botany. Annual Reports of the State Superintendent for the years 1867, '72, '74, '77, '80, '81, '83, '85, '86 and '87.

STATE PRIMARY & REFORM SCHOOL, Boston, Mass., John C. Whiton, Superintendent.
The 10th Annual Report of the Board of Trustees.

STATE PUBLIC SCHOOL, Coldwater, Mich., W. J. Lowery, Superintendent.
Circulars and scholars' work.

STATE DEPARTMENT OF EDUCATION, Harrisburg, Pa., E. E. Higbee, State Superintendent.
Two volumes of Annual Reports of the State Superintendent of Public Instruction. Two volumes of " Annual Reports of the Superintendent of Soldier's Orphans ". Two volumes of " School Laws ".

STATE DEPARTMENT OF PUBLIC INSTRUCTION, Austin, Texas, C. H. Cooper, Superintendent.
Two volumes of Reports of the Superintendent of Public Instruction, 1886 and 1888.

UNION SCHOOL DISTRICT, Concord, N. H., L. J. Rundlett, Superintendent.
A framed chart showing the hours devoted to each study and scholars' work, one volume of specimens of penmanship and one volume of specimens of drawing.

UNTEREINER, PROF. CHARLES, Westchester County, N. Y.
Collection of Reports of School Superintendents, School Laws and Circulars of Schools.

WENTWORTH ACADEMY, Lexington, Mo., Stanford Sellers, M. A., Principal.
Announcement, 1888-'89.

WORCESTER (MASS.) PUBLIC SCHOOLS, Albert P. Marble, Superintendent.
Eleven Annual Reports, 1877 to 1887. Rules of Board of Education. Teachers' Instructions and courses of study.

CLASS 7.—*Organisation and Appliances for Secondary Instruction.*

ALABAMA CONFERENCE FEMALE COLLEGE, Tuskagee, Ala., John Massy, President.
Annual Catalogue, 1888-'89.
Pamphlet of References.

AVALON COLLEGE, Avalon, Mo., F. A. Z. Kumler, A. B., Principal.
Annual Catalogue, 1887-'88.

BAYLESS BUSINESS COLLEGE, Dubuque, Iowa, C. Bayless, Principal.
Catalogue and Circulars.

BELLEVUE TRAINING SCHOOL FOR NURSES, New York City, Eliza P. Perkins, Superintendent.
Copies of the 16th Annual Report.
Photographs of Buildings and Classes.

BLAIRSVILLE LADIES SEMINARY, Blairsville, Pa. T. R. Ewing, President.
Annual Catalogue, 1887-'88.

BOBRICK, G. A., & CO., Boston, Mass.
Adjustable Desks and Chairs for Schools.

CENTRAL COLLEGIATE INSTITUTE, Altus, Ark., Rev. A. C. Miller. A. B., President.
Annual Catalogue 1887-'88.

CHARLOTTE FEMALE INSTITUTE, Charlotte, N. C., Rev. William R. Atkinson, President.
Annual Catalogue, 1887-'88.

CHOWAN BAPTIST FEMALE SEMINARY, Murfreesboro, N. C.. G. B. Brewer, A. M., President.
Annual Catalogue. 1887-'88.

CHRISTIAN BROTHERS' COLLEGE, Memphis, Tenn., Brother Maurelian, President.
Annual Catalogue, 1887-'88.

CLAVERACK COLLEGE, Claverack, N. Y., Rev. Arthur H. Flack, A. B., President.
Annual Catalogue, 1887-'88.

COLLEGIATE & POLYTECHNIC INSTITUTE, Brooklyn, N. Y., David H. Cochran, Ph. D., LL. D., President.
Annual Catalogue, 1887-'88.

COLUMBIA ATHENÆUM, Columbia, Tenn., Robert D. Smith, A. M., President.
Annual Register, 1887-'88.

COLUMBIA FEMALE COLLEGE, Columbia, S. C , Rev. O. A. Darby, D. D., President.
Annual Catalogue, 1887-'88.

DAVENPORT COLLEGE, Lenoir, N. C., Will. H. Sanborn, President.
Catalogues and announcements.

DUMMER ACADEMY, South Byfield, Mass., John W. Perkins, A. M., Principal.
Pamphlet on 125th Anniversary.
Catalogues. Pamphlet on Dedication. Photographs of Polo and Base Ball Clubs and of New Dormitory.

FAIRMOUNT STATE NORMAL SCHOOL, Fairmount, W. Va., Conrad A. Sipe, Principal.
Annual Catalogue, 1887-'88.

GAFFEY'S SCHOOL FOR SHORTHAND, New Haven, Conn., E. N. Barnes, Principal.
Circulars of information.

GREENSBOROUGH FEMALE COLLEGE, Greensborough, N. C., Rev. T. M. Jones, A. M., D. D., President.
Annual Catalogue, 1888-'89.

HEATH, D. C., & CO., 5 Somerset st., Boston, Mass.
School and College Text-Books. Small Maps and Charts. Astronomical Lantern. Number Tablet, etc.

HOWARD FEMALE COLLEGE, Gallatin, Tenn., A. M. Barney, President.
One portfolio of views, catalogue, blanks, students' work, etc.

HUNTSVILLE FEMALE COLLEGE, Huntsville, Ala., Rev. A. B. Jones, D. D., LL. D., President.
Annual Catalogue, 1887-'88.

INDIAN INDUSTRIAL SCHOOL, Carlisle, Pa.,
Current numbers of "The Indian Helper" and "The Red Man" edited and printed by the Indian boys.

INSTITUTE FOR TRAINING COLORED MINISTERS, Tuskaloosa, Ala.
Course of study and photograph of students.

IOWA BUSINESS COLLEGE, Des Moines, Iowa, Jennings and Chapman, Principals.
Circulars of Information.

JACKSONVILLE FEMALE ACADEMY, Jacksonville, Fla.
Annual Catalogue. 1887-'88.

KEMPER HALL, Davenport, Iowa, Right Rev. William Stevens Perry, D. D., LL. D., D. C. L., President.
Annual Register, 1887-'88.

KIMBALL, D., Chicago, Ill.
1. Text-books, " Shorthand Writer ", " The Amanuensis " and " Key to the Amanuensis ". 2. Circulars.

LAKE ERIE SEMINARY, Painsville, Ohio, Miss Mary Evans, President.
Annual Catalogue, 1887-'88.

LOGAN FEMALE COLLEGE, Russelville, Ky., H. K. Taylor, President.
Annual Register, 1887-'88.

LOWELL COMMERCIAL COLLEGE, Lowell, Mass., Albert C. Blaisdell, Principal.
" Commercial College Journal ".

LUCY KOBB INSTITUTE, Athens, Ga.
Announcement, 1887-'88.

MARION FEMALE COLLEGE, Marion, Va., Rev. J. J. Scherer, A. M., President.
" College Herald ", 1889.

MASSACHUSETTS NORMAL SCHOOL, Worcester, Mass., E. Harlow Russell, Principal.
Annual Catalogue, 1888-'89.

MEMPHIS CONFERENCE FEMALE INSTITUTE, Jackson, Tenn., Rev. A. W. Jones, A. M., D. D., President.
Annual Catalogue, 1887-'88.

MICHIGAN FEMALE SEMINARY, Kalamazoo, Mich., Antoinette Bryant, Principal.
A catalogue, pamphlets and students' drawings. Copies of the " Michigan Seminary Notes ".

MOUNT HOLYOKE COLLEGE & SEMINARY, South Hadley, Mass., Miss E. Blanchard, President.
Pamphlet on " Semi Centenial Celebration " and History of Mount Holyoke Seminary. Catalogues 1887 to' 89. Photographs, etc.

MUSCATINE COMMERCIAL COLLEGE, Muscatine, Iowa, J. B. Harris, A. M., Principal.
Second Annual Catalogue, 1888-'89.

NICHOL'S LATIN SCHOOL, Lewiston, Maine.
Annual Register, 1887-'88.

NORMAL SCHOOL, Tuskagee, Alabama, Booker T. Washington, Principal.
Six engravings of buildings, plan of course of study and scholars' work in drawing.

NORTHFIELD SEMINARY, Franklin Co., Mass., Miss Evelyn S. Hall, B. A., President.
Annual Catalogue and Blanks.

OUR LADY OF ANGELS SEMINARY & COLLEGE, Suspension Bridge, N. Y.
Prospectus for 1888-'89.

PENNELL INSTITUTE, Gray, Me., Lee B. Hunt, A. M., President.
Catalogue for 1888-89.

PENNINGTON SEMINARY, Pennington. N. J., Thomas Hanlon, A. M., D. D., President.
A catalogue and copy of " The Review ".

PENNSYLVANIA MILITARY ACADEMY, Chester, Pa., Col. Theodore Hyatt, A. M., President.
Catalogue for 1888-'89.

PHILADELPHIA MANUAL TRAINING SCHOOL, W. S. Sayre, Principal, 17th and Wood sts., Philadelphia, Pa.
Specimens of the manual work of the school.

PRATT, D. C., 32 Church st., New York City.
School Slates, Crayons and Blackboard.

ROCKFORD SEMINARY, Rockford, Ill., Martha Hillard, B. A., Principal.
Annual Catalogue, 1887-'88.

ST. KATHARINÈS HALL, Davenport, Iowa, Rt. Rev. William Stevens Perry, D. D., LL. D., D. C. L., President.
Annual register, 1887-'88.

ST. LOUIS SEMINARY, St. Louis, Mo.
Announcement, 1887-'88.

ST. MARK'S SCHOOL, Southborough, Mass., William E. Peck, A. M., President.
Annual Catalogue, 1888-'89, Blanks.

ST. STANISLAUS COMMERCIAL COLLEGE, Bay St. Louis, Missouri, Brother Osmond, President.
Students' work. Portfolios, specimens of book keeping and penmanship. Plan of College. Map of Bay St. Louis and course of study. Specimens of drawing. Photographs of students and buildings.

SCHÆFFER, Prof. C. C., Philadelphia, Pa.
Charts for instructing in languages and literature.

SHORTER COLLEGE, Rome, Ga., L. R. Gwaltney, President.
Announcement for 1887-'88.

SOULE COMMERCIAL COLLEGE, New Orleans, La., George Soulé, Principal.
Catalogues and text-books.

SOUTHERN FEMALE COLLEGE, Petersburg, Va., W. T. Davis, A. M., President.
Annual Catalogue, 1887-'88.

STAMFORD SEMINARY, Stamford, N. Y., F. M. Smith, Principal.
A manuscript for a new text-book on Geometry by F. M. Smith. Photographs of classes and catalogues.

THAYER ACADEMY, South Braintree, Mass., J. B. Sewall, A. M., Principal.
Annual Catalogue, 1888-'89.

THE PACKER COLLEGIATE INSTITUTE, Brooklyn, N. Y., Truman J. Backus, LL. D., President.
Annual Catalogues, 1887-'89.

TUSKALOOSA FEMALE COLLEGE, Tuskaloosa, Ala., Alonzo Hill, President.
Annual Catalogue, 1887-'88.

UNION FEMALE COLLEGE, Oxford, Miss., Mrs. E. J. Davis, Principal.
Catalogue for 1887-'88.

UNION SCHOOL, Cooperstown, N. Y., Jenny L. Comstock.
Catalogue of library.

UNITED STATES NAVAL ACADEMY, Annapolis, Md., Commander W. T. Sampson, Superintendent.
Text-books used in the Aacademy and circulars of information.

VAN NORMAN INSTITUTE, New York City, Madame Van Norman, Principal.
One portfolio containing catalogues, photographs, statistics and blanks. "Complete French class Book" by Rev. D. C. Van Norman. Three volumes of "Boiler, Pump, and Steam Engine" Catechism by R. Grimshaw, Ph. D. Two volumes of "Practical Training" by R. Grimshaw, Ph. D.

WESLEYAN FEMALE COLLEGE, Macon, Ga., Rev. W. C. Bass, D. D., President.
Annual Catalogue, 1887-'88.

WESTCHESTER COUNTY INSTITUTE, Peekskill, N. Y., Prof. Charles Untereiner, A. M., President.
Annual catalogue, 1887-'88.

WESTMINSTER SEMINARY, Fort Wayne, Ind., Miss C. B. Sharp & Mrs. D. B. Wells, Principals.
Annual Catalogue, 1887-'88.

WHEATON FEMALE SEMINARY, Norton, Mass., Miss A. E. Stanton, President.
Annual Catalogue, 1887-'88.

SMITH, W. H., Lexington, Ky.
Text-book on "Book-keeping". A Volume containing specimen pen-work.

CLASS 8.—*Organization, Methods and Appliances for Higher Instruction.*

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ACADEMIC DEPARTMENT, UNIVERSITY OF CINCINNATI, Ohio, Jacob D. Cox, A. M., LL. D., President.
Catalogue for 1888-'89.

ADELBERT COLLEGE, Cleveland, Ohio, Rev. Carroll Cutler, D. D., President.
Catalogue for 1888-'89.

AGRICULTURAL & MECHANICAL COLLEGE OF TEXAS, College station, Texas, H. H. Dinwiddie, Chairman of faculty.
Annual Catalogues, 1887-'88.

ALABAMA POLYTECHNIC INSTITUTE, Auburn, Ala., William Le Roy Broun, A. M., LL D., President.
Catalogue and descriptive circular.
Scholars' work : forty-five plates of drawings in a portfolio.

ALLEGHENY COLLEGE, Meadville, Pa., Rev. D. H. Wheeler, D. D., LL. D., President.
Catalogue for 1888-'89.

ALBION COLLEGE, Albion, Mich., Rev. L. R. Fisk, D. D., LL. D., President.
Annual Catalogue for 1888-'89.

AMERICAN BIBLE SOCIETY'S LIBRARY, New York City.
Catalogue of books.

AMERICAN CONGREGATIONAL ASSOCIATION, Boston, Mass.
Catalogues of books.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS, New York City, New York.
Current numbers of " Transactions ".

AMERICAN MUSEUM OF NATURAL HISTORY, New York City.
One volume of the Bulletin of the American Museum of Natural History, and one volume of Annual Reports.

AMERICAN NUMISMATIC & ARCHAEOLOGICAL SOCIETY, New York City.
Constitution and By-Laws. Four volumes of Proceedings. Catalogue of library.

AMHERST COLLEGE, Amherst, Mass., Rev. Julius H. Seelye, D. D., LL. D., President.
Photographs, text-books, etc.

AMITY COLLEGE, College Springs, Iowa, Rev. T. J. Kennedy, D. D., President.
Annual Catalogue, 1887-'88.

ANTIOCH COLLEGE, Yellow Springs, Ohio, Rev. Daniel A. Long, A. M., D. D., LL. D., President.
Annual Catalogue, 1887-'88.

ATLANTA UNIVERSITY, Atlanta, Ga., Rev. Hortace Bumstead, LL. D., President.
Annual Catalogue, 1887-'88.

BALDWIN UNIVERSITY, Berea, Ohio, William Kepler, President.
Catalogue for 1888-'89.

BALTIMORE MEDICAL COLLEGE, Baltimore, Md., William Lee, M. D., Dean.
Annual Catalogue for 1888-'89, and an "Order of Lectures".

BAKER UNIVERSITY, Baldwin, Kansas, Rev. Hillary A. Gobin, A. M., D. D., President.
Catalogue for 1888-'89.

BANGOR LIBRARY, Bangor, Maine, Daniel Holman, Librarian.
Librarians Report, catalogue, rules and regulations and blanks of administration.

BATES COLLEGE, Lewiston, Maine, Rev. Oren B. Cheney, D. D., President.
Annual catalogue, 1887-'88.

BATTLE CREEK COLLEGE, Battle Creek, Mich., William Warren Prescott, A. M., President.
Catalogue for 1888-'89.

BEARDSLY LIBRARY, West Winsted, Conn., Miss Louise M. Carrington, Librarian.
The Report of the Librarian. Catalogues of books and Supplement. Blanks of administration.

BEREA COLLEGE, Berea, Ky., Rev. E. H. Fairchild, President.
History of Berea college. Catalogues, 1887-'89.

BETHAMY COLLEGE, Bethamy, W. Va., W. K. Pendleton, LL. D., President.
Catalogue for 1888-'89.

BETHEL COLLEGE, Russellville, Ky., W. S. Ryland, President.
Annual register, 1887-'88.

BOSTON & ALBANY R. R. LIBRARY, Springfield, Mass.
Catalogue of books. Blanks, etc.

BOSTON COLLEGE, Boston, Mass , Rev. Edward V. Boursand, S. J., President.
Catalogue for 1887-'88.

BOSTON UNIVERSITY, Boston, Mass., W. F. Warren, LL. D., President.
Annual Report of the President. Catalogues.

BOWDOIN COLLEGE, Brunswick, Me., Rev. William Dewitt Hyde, D. D., President.
Annual Catalogue 1887-'88.

BOYNTON PUBLIC LIBRARY, Templeton, Mass., H. F. Lane, Librarian.
Catalogue of books. Blanks of administration.

BROOKS FREE LIBRARY, Harwich, Mass., Tamesin Brooks, Librarian.
Catalogue of books.

BROWN UNIVERSITY, Providence, R. I., Rev. E. G. Robinson, D. D., LL. D., President.
Report of the President. Catalogue and list of students and alumni.
Text-books and publications by Profs. J. J. Jameson and A. S. Packard of the faculty.

BUCHTEL COLLEGE, Akron, Ohio, Rev. O. Cone, D. D., President.
Catalogue for 1888-'89.

BUFFALO HISTORICAL SOCIETY, Buffalo, N. Y.
Volumes I and II of the publications of the Society, Reports and addresses.

BUFFALO PUBLIC LIBRARY, Buffalo, N. Y., J. N. Larned, Librarian.
Illustrated volume of the history of the building and library. Annual Reports. Library lecture course. Finding and additional lists. By-Laws. Annotated list of books 1879 to 1885. The general Blanks used in the administration of the library.

BUTLER UNIVERSITY, Irvington, Ind., A. R. Benton, LL. D., President.
Catalogue for 1888-'89.

CAMDEN COUNTY BAR ASSOCIATION, Camden, N. J.
Constitution and By-Laws.

CANISIUS COLLEGE, Buffalo, N. Y., Rev. Theodore Van. Rossum, S. J., President.
Catalogue for 1888-'89.

CARLETON COLLEGE, Northfield, Minn., Rev. James W. Strong, D. D., President.
A history of the college, catalogues, circulars, views of buildings, statement of course of study and a map of Northfield. Copies of " the Carletonian.

CARTHAGE COLLEGE, Carthage, Ill., Rev. E. F. Bartholomew, A. M., President.
Annual Catalogue, 1887-'88.

CASS SCHOOL OF APPLIED SCIENCE, Cleveland, Ohio, Cady Staley, Ph. D., President.
Annual catalogue, 1887-'88.

CENTRAL COLLEGE, Fayette, Mo., O. H. P. Corprew, A. M., President.
Annual Catalogue, 1887-'88.

CENTRAL UNIVERSITY OF IOWA, Pella, Iowa, Rev. L. A. Dunn, D. D., President.
Annual Catalogue for 1888-'89 and Announcement.

CHADDOCK COLLEGE, Quincy, Ill., M. D. Hornbeck, A. M., S. T. B., President.
Catalogue for 1888-'89.

CHARLESTON LIBRARY SOCIETY, Charleston, S. C., Miss A. E. Pinckney, Librarian.
The Constitution and rules and a Catalogue of books.

CHATTANOOGA UNIVERSITY, Chattanooga, Tenn., Rev. E. S. Lewis, A. M., President.
Catalogue and circular.

CHICAGO HISTORICAL SOCIETY, Chicago, Ill.
The constitution and by-laws and a list of members.

CHICAGO LAW INSTITUTE LIBRARY, Chicago, Ill., W. J. Culver, Librarian.
The Catalogue of books and a Supplement, and the Rules and Reports.

CHICAGO PUBLIC LIBRARY, Chicago, Illinois, Frederick H. Hild, Librarian.
One volume, Annual Reports of directors, 1873-1888. One volume Finding Lists. One volume Bulletins. One volume views, blanks, etc.

CHICAGO THEOLOGICAL SEMINARY, Chicago, Ill., Franklin W. Fisk, President.
Annual Catalogue for 1888-'89.

CHRISTIAN UNIVERSITY, Canton, Mo., J. H. Hardin, President.
Annual Catalogue, 1887-'88.

CLAFLIN UNIVERSITY, Orangeburg, S. C., Rev. L. M. Dunton, A. M., D. D., President.
Annual Catalogue, 1887-'88.

CLIONIAN LITERARY SOCIETY LIBRARY, Milton, Mass.
Catalogue of books of this library which is connected with the high school.

COLBY UNIVERSITY, Waterville, Me., Rev. J. D. B. Pepper, D. D., LL. D., President.
Catalogue for 1888-'89.

COLLEGE OF EMPORIA, Emporia, Kans., Rev. John F. Hendy, D. D., President.
Directory.

COLLEGE OF NEW JERSEY, Princeton, N. J., Rev. James Mc Cosh, D D., L. H. D., LL. D., President.
Catalogue for 1888-'89.

COLLEGE OF PHYSICIANS, Philadelphia, Pa., Charles P. Fisher, Librarian.
Transactions, Charter, By-Laws, etc.

COLLEGE OF THE CITY OF NEW YORK, New York City, Alexander S. Webb, LL. D., President.
Annual Register, 1887-'88.

COLUMBIAN UNIVERSITY, Washington, D. C., James C. Welling, LL. D., President.
Annual Catalogue, 1887-'88.

COPE, E. D., Philadelphia, Pa.
Plaster relief, Casts of two species of Extinct Mammals of the Age of the Lower Eocene.
Phenacodus Venticolum Cope.
Styracotherum Venticolum Cope.

CORNELL UNIVERSITY, Ithaca, N. Y., C. R. Adams, LL. D., President.
Annual Registers, 1887 to '89. Photographs of University buildings and grounds.

CORNELL COLLEGE, Mt. Vernon, Iowa., Rev. William F. King, A. M., D. D., President.
Annual Catalogue, 1887-'88.

CREIGHTON COLLEGE, Omaha, Neb., Rev. M. P. Dowling, S. J., President.
Annual Catalogue, 1887-1888.

CUMBERLAND UNIVERSITY, Lebanon, Tenn., Nathan Green, LL. D., Chancellor.
Annual Catalogue, 1887-'88.

DAKOTA SCHOOL OF MINES, Rapid City, Dakota., T. R. Carpenter, President.
Circular of Information.

DARTMOUTH COLLEGE, Hanover, N. H., Rev. Samuel C. Bartlett, D. D., LL. D., President.
Bound volumes and Current Numbers of the College periodicals, " Dartmouth Lyrics ", " Aegis ", " Dartmouth Literary Monthly " and " The Dartmouth ". Illustrated book called " Dartmouth and Vicinity ". Photographs of buildings, Glee Clubs, Athletic Clubs and editorial boards. Catalogue

DAVENPORT ACADEMY OF NATURAL SCIENCE, Davenport, Iowa.
Five volumes of " Proceedings ".

DAYTON PUBLIC LIBRARY, Dayton, Ohio.
Catalogue of Books. Pamphlet-Dedication. By-Laws. Report of Librarian.

DELAWARE COLLEGE, Newark, Del., Rev. J. H. Caldwell, A. M., D. D., President.
Catalogue for 1888-'89.

DE PAUW UNIVERSITY, Greencastle, Ind., Bishop Thomas Bowman, D. D., LL. D., President.
Two volumes of Catalogues, 1874-'88 inclusive. One portfolio of views, etc.

DOANE COLLEGE, Crete, Nebraska, Rev. David B. Perry, A. M., President.
Annual Catalogue, 1887-'88. Maps of Crete.

DOUGLAS LIBRARY, Canaan, Conn., Samuel A. Eddy, Librarian.
Catalogue.

DRURY COLLEGE, Springfield, Mo., Rev. N. J. Morrison, D. D., LL. D., President.
Catalogue for 1888-'89.

EARLHAM COLLEGE, Richmond, Ind., Joseph J. Mills, A. M., President.
Annual Catalogue, 1887-'88.

ECLECTIC MEDICAL COLLEGE, Cincinnati, Ohio, John M. Scudder, M. D , President.
Sixteen volumes of works by the Faculty. Current numbers of the "Eclectic Medical Journal". Catalogues of the Institution.

EDWARD L. PIERCE LIBRARY, St. Helena Island, South Carolina.
Four Catalogues.

EMORY COLLEGE, Oxford, Ga., Rev. Isaac S. Hopkins, Ph. D., D. D., President.
Annual Catalogue, 1887-'88.

ENGINEERS CLUB OF PHILADELPHIA, Philadelphia, Pa.
The Constitution, By-Laws and List of Members and current numbers of the "Proceedings".

ENOCH PRATT FREE LIBRARY, Baltimore, Md.
Librarian's Report, Catalogues and one volume of Letters and Documents.

EPISCOPAL THEOLOGICAL SCHOOL, Cambridge, Mass., Rev. George Z. Gray, D. D., President.
Annual Catalogue, 1887-'88.

EUREKA COLLEGE, Eureka, Ill., J. M. Allen, A. M., President.
Annual Catalogue, 1887-'88.

EWING COLLEGE, Ewing, Ill., Rev. John Washburn, A. M., D. D., President.
Announcement, 1887-'88.

FAY LIBRARY, Southborough, Mass., Francis E. Buck, Librarian.
Catalogues of Books.

FISKE FREE LIBRARY, Claremont, N. H., Abbie Field, Librarian.
A List of Books, Statement of Circulation and Blanks of Administration.

FRANKLIN COLLEGE, Franklin, Ind., Rev. W. T. Stott, D. D., President.
Annual Catalogue, 1887-'88.

FRANKLIN COLLEGE, New Athens, Ohio., J. C. Black, President.
Circular for 1888-'89.

FRANKLIN INSTITUTE, Philadelphia, Pa., Joseph M. Wilson, C. C., President.
Charts and by-laws
Announcement.

FRANKLIN TYPOGRAPHICAL SOCIETY, Boston, Mass., M. C. Upham, Secretary.
Constitution, By-Laws and List of Members.
Catalogue of Library.

FREE PUBLIC LIBRARY, Alameda, Cal., Robert Kirk, Librarian.
Catalogue of Books.

FREE PUBLIC LIBRARY, Auburn, Mass., L. P. Merriam, Librarian.
Catalogue of Books.

FREE PUBLIC LIBRARY, Burlington, Iowa. Clara S. Smith, Librarian.
Catalogues of Books. Report of Circulation and Blanks.

FREE PUBLIC LIBRARY, Topeka, Kans., Olin. S. Davis, Librarian.
A Catalogue of Books and Finding List. Two Photographs and Blanks of Administration.

FREE PUBLIC LIBRARY, Uxbridge, Mass.. Lawson A. Seagrave, Librarian.
A bound volume of Catalogues, Reports, etc.

FRIENDS' FREE LIBRARY, Germantown, Philadelphia, Pa., William Kise, Librarian.
Committee's Reports Catalogues. Circulars. Blanks of Administration. Photograph of Library.

FURMAN UNIVERSITY, Greenville, S. C., Rev. Charles Manly, D. D., President.
Annual Catalogue 1887-'88.

GENERAL SOCIETY MECHANICS & TRADESMEN OF THE CITY OF NEW YORK., Jacob Schwartz, Librarian.
A Catalogue and Finding List for the Library, a Manual for 1889, Annals of the Society, an old Charter, Photographs and Statistics. Blanks of Administration.

GEORGETOWN COLLEGE, Georgetown, Ky., Rev. R. M. Dudley. D. D., President.
President's address.

GEORGETOWN UNIVERSITY, Washington, D. C., Rev. James A. Doonan, S. J., President.
Catalogue of Law School for 1888-'89.

GENERAL THEOLOGICAL LIBRARY, Boston, Mass., Luther Farnham, Librarian.
The 16th Annual Proceedings.

GENEVA COLLEGE, Beaver Falls, Pa., Rev. H. H. George, D. D., President.
Catalogue for 1888-'89.

GERMAN-ENGLISH COLLEGE, Galena, Ill., Rev. Fr. Schaub, A. M., President.
Catalogue for 1888-'89.

GRAND TRAVERSE COLLEGE, Benzonia, Mich., S. B. Harvey, President.
Annual Catalogue for 1888-'89.

GRANT MEMORIAL UNIVERSITY, Athens, Tenn., John J. Spence, S. T. D., President.
Catalogue for 1888-'89.

GRISWOLD COLLEGE, Davenport. Iowa., Rt. Rev. William Stevens Perry, D. D., LL. D., D. C. L., President.
Annual Catalogue, 1887-'88.

GROVE CITY COLLEGE, Mercer Co., Pa., Isaas C. Ketler, A. M., Ph. D., President.
Catalogue for 1888-'89.

HAMILTON COLLEGE, Clinton, N. Y., Rev. Henry Darling, D. D., LL. D., President.
Catalogue for 1888-'89.

HAMPDEN SIDNEY COLLEGE, Hampden Sidney, Va., Rev. Richard Mc Elwaine, D. D., President.
Annual Catalogue, 1887-'88.

HAMPTON PUBLIC LIBRARY, Bridgehampton, N. Y.
Copy of the Charter of the Library, Reports of Circulation and Finances, Specimen Blanks.

HANOVER COLLEGE, Hanover, Ind., Rev. D., W. Fisher, D. D., President.
Annual Catalogue, 1887-'88.

HARLEM LIBRARY, New York City.
Catalogue of Books and two Bulletins. Blanks.

HARTSVILLE COLLEGE, Hartsville, Ind., Rev. C. H. Kiracofe, A. M., President.
Annual Catalogue, 1887-'88. "Index" 1888.

HARVARD MEDICAL SCHOOL, Boston, Mass., H. P. Bowditch, M. D.. Dean.
Medical publications 1887, 100th Anniversary of Founding. Courses for graduates and classes. Catalogue 1887-'88.

HAVERFORD COLLEGE, Montgomery Co., Pa., Isaac Sharpless, LL. D., President.
Three Photographs and two Catalogues.

HEDDING COLLEGE, Abingdon, Ill., Rev. J. R. Jaques, D. D., Ph. D., President.
Annual Catalogues, 1887-'88.

HEIDELBERG COLLEGE, Tiflin, Ohio, Rev. George W. Willard, D D., President.
A History of the College. Six volumes written by Members of the Faculty. A Chart showing the hours devoted to each study by the classes. Six Photographs.

HIGHLAND UNIVERSITY, Highland, Kan., Rev. Duncan Brown, D. D., President.
Annual Catalogue, 1887-'88.

HIWASSEE COLLEGE, Hiwassee, Tenn., Rev. J. H. Brunner, A. M., D. D.
Annual Catalogue, 1887-'88.

HISTORICAL SOCIETY OF DELAWARE, Wilmington, Delaware.
One volume Papers of the Society. One volume Description of Wilmington, Del.

HISTORICAL SOCIETY OF MONTANA, Helena, Montana.
Annual Report of the Librarian and a Catalogue of the Law Library. Annual Report for 1888 of the Superintendent of Public Instruction. A Copy each of the "Heart of the Continent", "Great Falls Tribune", "West Shore" and a map of the St. Paul, Minneapolis and Manitoba Railroad.

HOMEOPATHIC MEDICAL COLLEGE, Chicago, Ill., J. R. Kippax, M. D., Secretary.
Announcement for 1888-'89 and text-books by Professors John S. Kipper and E. H. Pratt.

HOPEDALE PUBLIC LIBRARY, Hopedale, Mass., William N. Goddard, Librarian.
Two volumes of Annual Reports.

HOWARD UNIVERSITY, Washington, D. C., Rev. William W. Patton, D. D., President.
Catalogue for 1888-'89.

INDIANA STATE MEDICAL SOCIETY, Indianapolis, Ind.
Four volumes of " Transactions ".

INDIANA UNIVERSITY, Bloomington, Ind., David S. Jordan, M. D., Ph. D., President.
Annual Catalogue, 1887-'88.

INSURANCE DEPARTMENT OF NEW JERSEY, Trenton, N. J.
Eight volumes of Annual Reports.

IOWA COLLEGE, Grinnell, Iowa, Rev. Samuel J. Buck, A. M., President.
Annual Catalogue, 1887-'88.

IOWA WESLEYAN UNIVERSITY, Mt. Pleasant, Iowa, Rev. J. S. Mc Farland, A. M., LL. D., President.
Annual Register, 1887-'88.

ISHPEMING CITY LIBRARY, Ishpeming, Mich., Eben. W. Fiske, Librarian.
Catalogue of Books and Statistics.

JACKSON, ARTHUR C., Sanford, Florida.
Collective exhibit of Books, etc., illustrating the Education and other Institutions of the State of Florida.

KEACHIE COLLEGE, Keachie, La., T. N. Coleman, President.
Catalogue for 1888-'89.

KENTUCKY UNIVERSITY, Lexington, Ky., Charles Louis Loos, President.
A Portfolio containing Photographs, Catalogues and Blanks of Administration of the College of Liberal Arts.

KNOX COLLEGE, Galesburg, Ill., Rev. Newton Bateman, A. M., LL. D., President.
Annual Catalogue, 1887-'88.

LAFAYETTE COLLEGE, Easton, Pa., Rev. James H. Mason Knox, D. D., LL. D., President.
Current numbers of the " Lafayette ", and one volume of " The Melange ", Students' Publications, and six Photographs. Illustrated descriptive pamphlet. Annual Catalogue, 1887-'89. Examination Questions.

LAKE FOREST UNIVERSITY, Lake Forest, Ill., Rev. William C. Roberts, D. D., LL. D., President.
Annual Catalogue, 1887-'88.

LANE UNIVERSITY, Lecompton, Kansas, J. A. Meller, A. M., President.
Annual Catalogue, 1887-'88.

LA SALLE COLLEGE, Philadelphia, Pa., Brother Isidore, President.
Annual Catalogue, 1887-'88.

LEBANNON VALLEY COLLEGE, Annville, Pa., Geo. W. Bowman. President, pro tem.
Catalogue for 1888-'89.

LEHIGH UNIVERSITY, South Bethlehem, Pa., Robert A. Lamberton, LL. D., President.
The " Lehigh Burr " published by the students. Catalogues, etc.

LIBRARY ASSOCIATION, Portland, Oregon, Henry A. Oxer, Librarian.
Annual Report for 1887-'89.

LITHGOW LIBRARY, Augusta, Me.
The Catalogue of Books.

LOMBARD UNIVERSITY, Galesburg, Ill., Rev. N. White, Ph. D., President.
Annual Catalogue, 1887-'88. " Bulletin ", 1888.

LUTHER COLLEGE, Decorah, Iowa, Rev. Laur Larsen, President.
Annual Catalogue, 1887-'88.

MADISON UNIVERSITY, Hamilton, N. Y., Rev. E. Dodge, D. D., LL. D., President.
Catalogue for 1888-'89.

MANHATTAN COLLEGE, New York City, Rev. Brother Justin, President.
Catalogue for 1888-'89.

MANUFACTURERS AND MECHANICS LIBRARY ASSOCIATION, Lewiston, Maine, R. C. Pennell, Librarian.
A copy each of the Constitution, By-Laws, Catalogue and Blanks used in the Administration of the Library.

MASSACHUSETTS COLLEGE OF PHARMACY, Boston, Mass., Charles C. Williams, Ph. D., M. D., Secretary.
The Course of Study. A portfolio of views of the College and Students. Students' works : box of Pharmaceutics prepared by them.

MASTER CAR BUILDERS' ASSOCIATION, New York City.
Eight volumes of " Annual Reports ". Five volumes of " Reports of Conventions ".

MECHANICS LIBRARY, Portland, Maine, Hubbard W. Bryant, Librarian.
Portfolio of Blanks, Rules, etc.

MEDICAL COLLEGE OF VIRGINIA, Richmond, Va., J. S. D. Cullen, M. D., Dean.
Annual Catalogue, 1887-'88. List of graduates.

MEDICAL SOCIETY OF KINGS COUNTY, Brooklyn, N. Y.
Eight volumes of the " Proceedings " of the Society and two volumes of the Medical Journal published by the Society.

MEMORIAL FREE LIBRARY, Mount Airy, Philadelphia, Pa., L. D. Lovett, Librarian.
Annual Report and a Catalogue. Statistics and Blanks of Administration. Four Photographs.

MERCANTILE LIBRARY, San Francisco, Cal., Alfred E. Whitaker, Librarian.

Three Catalogues. Four volumes of annual Reports, Blanks of Administration. Rules, etc.

MIDDLEBURY COLLEGE, Middlebury, Vt., Ezra Brainard, A. M., President.
Annual Catalogue, 1887-'88.

MISSISSIPPI COLLEGE, Clinton, Miss., Rev. W. S. Webb, D. D., President.
Catalogue for 1888-'89.

MT. HOLYOKE SEMINARY, South Hadley, Mass.
One Portfolio of views. Catalogues, History, etc.

MT. UNION COLLEGE, Mount Union, Ohio, O. N. Hartshorn, LL. D., President.
Circular for 1888-'89.

MT. ST. MARY'S COLLEGE, Emmitsburg, Md., Rev. Edward P. Allen, A. M., President.
Catalogue for 1888-'89.

MONMOUTH COLLEGE, Monmouth, Ill., Rev. J. B. Michael, D. D. ,President.
Announcement for 1888-'89.

MUHLENBURG COLLEGE, Allentown, Pa., Rev. T. L. Seip, D. D., President.
Annual Catalogue, 1887-'88.

MUSKINGUM COLLEGE, New Concord, Ohio, Rev. John D. Irons, President.
Catalogue for 1888-'89.

NEBRASKA CENTRAL COLLEGE, Central City, Neb., D. Marquett, President.
Catalogue for 1888-'89.

NEW HAVEN HISTORICAL SOCIETY, New Haven, Conn.
Four volumes of " Papers " of the Society.

NEW YORK ACADEMY OF MEDICINE, New York City.
Five volumes of the Transactions of the Academy and a Catalogue of Books in the Library.

NEW YORK HOSPITAL LIBRARY, New York City, John L. Vandervoort, M. D., Librarian.
Charter, etc. Catalogue of Books. 117th annual Report.

NEW YORK MEDICAL ASSOCIATION, New York.
Four volumes of " Transactions ".

NEW YORK MERCANTILE LIBRARY ASSOCIATION, New York City, W. J. Peoples, Librarian.
Three annual Reports. Pamphlet on 50th Anniversary Celebration. Catalogue with three Supplements and two Bulletins. Specimen Card Catalogue and drawer. Volume " New York City during American Revolution ".

NEW ORLEANS UNIVERSITY, New Orleans, La., Rev. L. G. Adkinson, D. D., President.
Annual Catalogue, 1887-'88.

NEW WINDSOR COLLEGE, New Windsor, Md., Rev. A. M. Jelly, D. D., President.
Catalogue for 1888-'89.

NIAGARA UNIVERSITY, BUFFALO LAW SCHOOL, Buffalo, N. Y., P. V. Cavanaugh, A. M., President.
Catalogue for 1888-'89.

NORTHWESTERN COLLEGE, Naperville, Ill., Rev. H. H. Rassweiler, A. M., President.
Annual Catalogue, 1888-'89.

NORTHWESTERN UNIVERSITY, Evanston, Ill., Rev. Joseph Cummings, D. D., LL. D., President.

Annual Catalogues, 1888-'89. Blanks used in making reports, etc. Map of town showing location of buildings. Circulars. " Syllabus ".

NORTON PUBLIC LIBRARY, Norton, Mass., A. M. Round, Librarian.

Catalogue of Books and a Supplement. A Report of the Librarian and Blanks used in the Administration of the Library.

OBERLIN COLLEGE, Hiram, Ohio, Rev. James H. Fairchild, D. D., President.

Catalogue for 1888-'89.

ODD FELLOWS LIBRARY ASSOCIATION. San Francisco, Cal., George A. Carnes, Librarian.

The Report of the Librarian for 1888.

OGDEN COLLEGE, Bowling Green, Ky., Wm. A. Obenchain, A. M., President.

Catalogue for 1888-'89.

OHIO STATE UNIVERSITY, Columbus, Ohio, Rev. M. Loy, D. D., President.

Catalogue for 1888-'89.

OHIO WESLEYAN UNIVERSITY, Delaware, Ohio, Rev. Charles H. Payne, D. D., LL. D., President.

Annual Catalogue, 1887-'88.

OLIVET COLLEGE, Olivet, Mich., Rev. Horatio Q. Butterfield, D. D., President.

Catalogue for 1888-'89.

ONEIDA HISTORICAL SOCIETY, Utica, N. Y.

Constitution and By-Laws, Circular letters and Extracts.

ORANGE PUBLIC LIBRARY, Orange, California, Robert E. Sener, Librarian.
A Catalogue of Books.

OSBORN, Prof. HENRY S., Oxford, Ohio.
Large wall Maps of Palestine and Part of Syria.

OSKALOOSA COLLEGE, Oskaloosa, Iowa, R. H. Johnson, A. M., President.
Annual Catalogue, 1887-'88.

OSWEGO CITY LIBRARY, Oswego, N. Y., Robert S. Kelsey, Librarian.
A Card of Statistics.

OTTAWA UNIVERSITY, Ottawa, Kans., Rev. M. L. Ward, D. D., President.
Annual Catalogue 1887-'88.

OTTERBEIN UNIVERSITY, Westerville, Ohio, Rev. Henry Garst, D. D., President.
Catalogue for 1888-'89.

PACIFIC METHODIST COLLEGE, Santa Rosa, Cal., J. S. Austin, A. M., President.
Annual Catalogue, 1887-'88.

PARKS, C. WELMANN, Rensselaer Polytechnic Institute, Troy, N. Y.
A Statistical Chart of Universities, Colleges, Science Schools, and Institutions for the Superior Instruction of Woman. An Exhibit of Periodicals Published by Students. Map of the United States, showing the Location of Public Institutions and Railroads.

PARKS, M. B., Troy, N. Y.
Books, Pamphlets, etc. Publications of the "King's Daughters".

PARSONS COLLEGE, Fairfield, Iowa, Rev. Thomas D. Ewing, D. D., President.
Annual Catalogue for 1888-'89.

POUGHKEEPSIE PUBLIC LIBRARY, Poughkeepsie, N. Y., John C. Stickley, Librarian.
Report and Manual of the Board of Education, Catalogue of Library and Mounted Blanks of Administration.

PHILADELPHIA POLYCLINIC AND COLLEGE FOR GRADUATES IN MEDICINE, Philadelphia, Pa., Dr. R. J. Lewis, President.
Announcement for 1888-'89.

PHILANDER SMITH COLLEGE, Little Rock, Ark., Rev. Thomas Mason, A. M., President.
Catalogue for 1888-'89.

PORTLAND PUBLIC LIBRARY, Portland, Me., Stephen W. Watson, Librarian.
By-Laws. Catalogue of Books. Blanks of Administration. Historical and Genealogical Record, vol. IV.

PRESBYTERIAN HISTORICAL SOCIETY, Philadelphia, Pa.
Eight Annual Reports.

PUBLIC LIBRARY, Ayer, Mass.
Catalogue of Books.

PUBLIC LIBRARY, Belleville, Ill., F. J. Stawfenbiel, Librarian.
A portfolio containing a Statistical exhibit of the Library.

PUBLIC LIBRARY, Bryan, Ohio.
Catalogue of Books.

PUBLIC LIBRARY, Chelsea, Mass., Medora J. Simpson, Librarian.
A Catalogue of Books and a Supplement. A Report of Trustees and the Dedication of New Building.

PUBLIC LIBRARY, Fitchburg, Mass., P. C. Rice, Librarian.
Report of Trustees. Blanks of Administration.

PUBLIC LIBRARY, Portland, Me., S. M. Watson, Librarian.
"The Maine Historical and Genealogical Record", Vol. IV.

PUBLIC LIBRARY, St. Louis, Mo., Frederick M. Crunden, Librarian.
A Catalogue of Books and Supplement. A Bulletin of Additions, Rules and Annual Reports.

PUBLIC LIBRARY, Somerville, Mass., Harriet A. Adams, Librarian.
A Catalogue of Books, view of the Building, Reports of Trustees and Blanks used in the Administration of the Library.

PUBLIC LIBRARY, Southbridge, Mass., Miss A. Jeannette Comins, Librarian.
A Catalogue of Books and two Supplements. A portfolio of views and Blanks used in the Administration of the Library.

PUBLIC LIBRARY, Taunton, Mass., E. C. Arnold, Librarian.
Catalogue and two Supplements. Portfolio of Rules, Statement of Circulation and Blanks used in the Administration of the Library.

PUBLIC LIBRARY, Toledo, Ohio, Mrs. T. D. Germain, Librarian.
A Catalogue of the Books in the Library, the Rules and Regulations and the Blanks used in the Administration of the Library.

PUBLIC LIBRARY, West Brookfield, Mass., T. S. Knowlton, Librarian.
A Catalogue of Books and Supplement. Dedication and Committee Reports, Statistics, Photographs and Blanks of Administration of Library.

PURDUE UNIVERSITY, La Fayette, Ind., Arthur L. Green, President.
School of Pharmacy Announcement for 1888-'89.

RACINE COLLEGE, Racine, Wis., Rev. Albert Z. Gray, S. T. D., President.
Catalogue for 1888-'89.

RAYMOND PUBLIC LIBRARY, Royalston, Mass., Miss Lizzie W. Chase, Librarian.
Catalogue and Blanks.

RENSSELAER POLYTECHNIC INSTITUTE, Troy, N. Y., John H. Peck, President.
Statistical Charts, Photographs of Students, of Buildings, and of Works erected by Graduates. Drawings made by Students. Books written by the Faculty and Alumni, Models and Catalogues.

RENSSELAER SOCIETY OF ENGINEERS, Troy, N. Y.
Three Volumes of Papers of the Society.

RHODE ISLAND HOSPITAL LIBRARY, Providence, R. I., G. L. Collins, M. D., Librarian.
Two Annual Reports and the Rules and Regulations.

RICHMOND THEOLOGICAL SEMINARY, Richmond, Va., Rev. Charles H. Corey, A. M., D. D., President.
Annual Catalogues, 1887-'89.

ROANOKE COLLEGE, Salem, Va., Julius D. Dreher, A. M., Ph. D., President.
Catalogue for 1888-'89.

ROGER WILLIAMS UNIVERSITY, Nashville, Tenn., W. E. Morang, A. M., President.
Catalogue for 1888-'89.

ROLLINS COLLEGE, Winter Park, Fla., Rev. E. P. Hooker, D. D., President.
Annual Report of the President. Annual Catalogue, 1887-'88.

ROSE POLYTECHNIC INSTITUTE, Terre Haute, Ind., T. C. Mendenhall, Ph. D., President.
Annual Catalogue, 1887-'88.

RUDY, CHARLES, Paris, France.
Text-Books showing a New Method of Teaching the Chinese Mandarin Languages and other Language Courses.

RUST UNIVERSITY, Holly Springs, Miss., Charles E. Libby, President.
Catalogue for 1888-'89.

RUTGERS COLLEGE, New Brunswick, N. J., Merrill E. Gates, LL. D., L. H. D., President.
Catalogue for 1888-'89.

SANTA CLARA COLLEGE, Santa Clara, Cal., Rev. R. E. Kenna, S. J., President.
Annual Catalogue, 1887-'88.

ST. CHARLES COLLEGE, Ellicott, Md., Rev. F. L. Dumont, A. M., President.
Catalogue for 1888-'89.

ST. FRANCIS SOLANUS COLLEGE, Quincy, Ill., Rev. P. Anselmus Mueller, O. S. J., President.
Catalogue for 1888-'89.

ST. IGNATIUS COLLEGE, Chicago, Ill., Rev. Edward A. Higgins, S. J., President.
Annual College, 1887-'88.

ST. IGNATIUS COLLEGE, San Francisco, Cal., Rev. J. Sasia, S. J., President.
Annual Catalogue, 1887-'88.

ST. JOHN'S COLLEGE, Annapolis, Md., Thomas Fell, A. M., Acting President.
A Portfolio of Views of the College. The Course of Study. The Annual Catalogue for 1888-'89.

ST. JOSEPH DIOCESAN COLLEGE, Teutopolis, Ill., Rev. P. Michael Richardt, O. S. F., President.
Photographs of Faculty and Classes. Blanks and Catalogues.

ST. LAWRENCE UNIVERSITY, Canton, N. Y., Rev. A. G. Gaines, D. D., President.
Annual Catalogue, 1887-'88.

ST. LOUIS MEDICAL COLLEGE, St. Louis, Mo.' J. S. B. Alleyne, M. D., Dean.
A Copy of the Annual Catalogue and an Order of Exercises for the Classes.

ST. MARY'S COLLEGE, Marion Co., Ky., Rev. D. Fennessy, C. R., President.
Catalogue for 1888-'89.

ST. MEINRAD'S COLLEGE & ECCLESIASTICAL SEMINARY, St. Meinrad, Ind., P. Thomas Ay. Weikert, O. S. B., President.
Annual Catalogue, 1887-'88.

ST. STEPHEN'S COLLEGE, Annandale, N. Y., Rev. R. B. Fairbairn, D. D., LL. D., President.
Seven Photographs of Buildings and Students, address at 25th Anniversary, and Proceedings at the Laying of the Corner stone.
Rules, Regulations, Reports and Catalogues. Four Volumes : College Sermons by R. B. Fairbairn; on Morality by R. B. Fairbairn; on Revelation by W. W. Olsen; on Personality by W. W. Olsen.
Current numbers of the " Churchman ".

ST. VIATEUR'S COLLEGE, Bourbonnais Grove, Ill., Rev. M. J. Marsile, C. S. V., President.
Annual Catalogue, 1887-'88.

ST. VINCENT COLLEGE, Westmoreland Co., Pa., Rt. Rev. Boniface Wimmer, O. S. B., President.
Annual Catalogue, 1887-'88.

SAN JOAQUIN VALLEY COLLEGE, Woodbridge, Cal., Rev. Darius A. Mobley, D. D., President.
Catalogue for 1888-'89.

SCHOOL OF MINES, COLUMBIA COLLEGE, New York City, C. F. Chandler, Ph. D., M. D., LL. D., Dean.
Catalogues, etc.

SCIO COLLEGE, Scio, Ohio, Rev. E. J. Marsh, A. M., B. D., President.
Catalogue for 1888-'89.

SEARCY COLLEGE, Searcy, Arkansas, W. H. Sharp, President.
Annual Catalogue, 1888-'89.

SHAW UNIVERSITY, Reaghi, N. C., Rev. H. M. Tupper, D D , President.
Annual Catalogue, 1887-'88.
Announcement of Medical School.

SHELDON ART MUSEUM, Middlebury, Vt.
Act of Incorporation and Report of Circulation.

SIMPSON COLLEGE, Indianola, Iowa, Rev. W E. Hamilton, A. M., President.
Annual Catalogue, 1887-'88.

SMITH, SIDNEY M., San Francisco, Cal.
Series of 26 Photographic Views, by Mathews, of the Lick Telescope, and the Observatory.

SOCIETY FOR THE COLLEGIATE INSTRUCTION OF WOMEN, HARVARD UNIVERSITY, Cambridge, Mass.
Reports of Treas. and Sec'y, Contributions, Catalogues and Blanks of Administration.

SOUTH KENTUCKY COLLEGE, Hopkinsville, Ky., James S. Scobey, A. M., President.
Annual Catalogue, 1887-'88.

SOUTHWESTERN UNIVERSITY, Georgetown, Texas, Rev. J. W. Heild, D, D., President.
Catalogue for 1888-'89.

SPRING HILL COLLEGE, Near Mobile, Ala., Rev. David Mc Kiniry, S. J., President.
Annual Catalogue, 1887-'88.

STATE AGRICULTURAL COLLEGE, Fort Collins, Colo., Charles L. Ingersoll, M. S., President.
Annual Register, 1887-'88.

STATE AGRICULTURAL COLLEGE, Ames, Iowa, W. I. Chamberlain, A. M., LL. D., President.
Catalogue 1888-'89.
A Volume of Photo-Engravings.

STATE UNIVERSITY OF IOWA, Iowa City, Iowa, Joseph L. Packard, LL. D., President.
Annual Catalogue, 1887-'88.

STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, N. J., Henry Morton, Ph. D., President.
Twenty Photographs of Students and Buildings.
Current numbers of the " Stevens Indicator " and other Students' Publications.

STRAIGHT UNIVERSITY, New Orleans, La., Rev. R. C. Hitchcock, President.
Catalogue for 1888-'89.

STRATFORD LIBRARY ASSOCIATION, Bridgeport, Conn., Agnes Hills, Librarian.
President's Report and Catalogue of Books.

SWARTHMORE COLLEGE, Swarthmore, Pa., Edward H. Magill, LL. D., President.
Annual Catalogue, 1888-'89, Current numbers of " Swarthmore Phoenix " and Information regarding Athletics in the College.

SYRACUSE UNIVERSITY, Syracuse, N. Y. Rev. C. N. Sims, D. D., LL. D., President.
Catalogue for 1887-'88.

TABOR COLLEGE, Tabor, Iowa, Rev. William M. Brooks, A. M., President.
Annual Catalogue, 1887-'88.

THE BROOKLYN LIBRARY, Brooklyn, N. Y.
Four Annual Reports. Manual of the Trustees. Catalogues and Bulletins. Prospectus of Classified Catalogue. Blanks used in the Administration of the Library,

THE GERMAN SINGING CIRCLE, New York City.
Catalogue of Library, Copy of Charter and Annual Report 1888.

THE HAHNEMAN MEDICAL COLLEGE, Philadelphia, Pa., A. R. Thomas, M. D., Dean.
Announcement for 1888-'89.

THE SOUTHERN HISTORICAL SOCIETY, Richmond, Va.
Vol. XV of the Papers of the Society and Circulars.

THIEL COLLEGE, Greenville, Pa., Rev. D. Mc Kee, A. M., President.
Annual Catalogue, 1887-'88.

TRINITY COLLEGE, Hartford, Conn., Rev. George W. Smith, D. D., President.
Annual Catalogue, 1887-'88.

TRINITY COLLEGE, Randolph, N. C., John E. Crowell, President.
Catalogue for 1888-'89.

TUFTS COLLEGE, College Hill, Mass., Rev. Elmer H. Capenn, D. D., President.
Catalogue for 1888-'89.

TUFT'S LIBRARY, Weymouth, Mass., Caroline A. Blanchard, Librarian.
A Catalogue, Report of Trustees, and Blanks of Administration of Library.

TULANE UNIVERSITY OF LOUISIANA, New Orleans, La., William Preston Johnston, LL. D., President.
Catalogues for 1887-'89. Catalogue and List of Alumni of Medical Department.

UNION CHRISTIAN COLLEGE, Merom, Ind., Rev. A. J. Aldrich, A. M., B. D., President.
Annual Catalogue, 1887-'88.

UNION FOR CHRISTIAN WORK, Brooklyn, N. Y.
Two Annual Reports. Catalogue of Books in the Free Library. Portfolio of Views.

UNION THEOLOGICAL SEMINARY, New York City, Thomas S. Hastings, Secretary.
Annual Catalogue, 1888-'89. General Catalogue.

UNION UNIVERSITY, Albany and Schenectady, N. Y.
Commencement Address and Catalogues, Albany College of Pharmacy. Catalogues and Addresses, Albany Medical College. Constitution and Proceedings, Association of Alumni. Catalogue of Union College 1888-'89.

UNIVERSITY OF DAKOTA, Vermillion, Dakota, J. R. Herrick, President.
Catalogue for 1888-'89.

UNIVERSITY OF DES MOINES, Des Moines, Iowa, Rev. Ira E. Kenney, D. D., President.
Annual Calender, 1887-'88.

UNIVERSITY OF GEORGIA, Athens, Ga., Rev. P. H. Mell, D. D., LL. D., Chancellor.
Annual Announcement, 1887-'88.

UNIVERSITY OF ILLINOIS, Urbana, Illinois, Selim H. Peabody, Ph. D., LL. D., President.
Eleven volumes of Annual Reports.
One volume Views, Drawings, etc.
Two Catalogues.

UNIVERSITY OF KANSAS, Lawrence, Kan., Rev. J. A. Lippincott, D. D., LL. D., President.
Annual Catalogue, 1887-'88.

UNIVERSITY OF MICHIGAN, Ann Arbor, Mich., James B. Angell, LL. D., President.
Calenders 1887-'89.

UNIVERSITY OF NORTH DAKOTA, Grand Forks, Dak., Henry Montgomery, A. M., B. S., Ph. D., President.
Catalogue for 1888-'89.

UNIVERSITY OF NOTRE DAME, Notre Dame, Ind., Very Rev. Thomas E. Walsh, C. S. C., President.
Annual Catalogues, 1887-'89.

UNIVERSITY OF PENNSYLVANIA, Phil., Pa , William Pepper, M. D., LL. D., President.
Catalogue for 1888-'89.

UNIVERSITY OF ROCHESTER, Rochester, N. Y., M. B. Anderson, LL. D., President.
Catalogue for 1888-'89.

UNIVERSITY OF THE SOUTH, Sewanee, Tenn., Rev. Telfair Hodgson, D. D., President.
Annual Catalogue for 1888-'89.

UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE, Burlington, Vt., Rev. Matthew H. Buckham, D. D., President.
Report of the Board of Trustees, 1888.

UNIVERSITY OF VIRGINIA, University of Va., Va., Charles S. Venable, LL. D., Chairman of the Faculty.
Text-Books, Photographs, etc.

UNIVERSITY OF WISCONSIN, Madison, Wis., T. C. Chamberlin, A. M., Ph. D., President.
Annual Catalogues, 1887-'89.

UNIVERSITY OF WOOSTER, Wooster, Ohio, Rev. Sylvester F. Scovel, President.
Catalogue for 1888-'89.

UPPER IOWA UNIVERSITY, Fayette, Iowa, Rev. J. W. Bissell, D. D., President.
Annual Catalogues and Prospectus, 1888-'89. Blanks used in the administration. Bound volumes of the " Fayette Collegian ".

URSINUS COLLEGE, Collegeville, Pa., Geo. W. Bowman, President pro tem.
Three numbers of the " College Bulletin ". Invitations and Annual Catalogue for 1888.

VASSAR COLLEGE, Poughkeepsie, N. Y., Rev. James M. Taylor, D. D., President.
Twenty-two photographs of buildings and three volumes descriptive of Vassar. Course of Study and Catalogues.

VILLA NOVA COLLEGE, Delaware Co., Pa., The Very Rev. F. M. Sheeran, S. T. B., O. S. A., President.
Catalogue for 1888-'89.

VIRGINIA AGRICULTURAL & MECHANICAL COLLEGE, Lynchburg, Va., L. L. Lomax, President.
Annual Catalogue, 1887-'88.

VIRGINIA HISTORICAL SOCIETY, Richmond, Va.
Five volumes of Historical Collections. Two volumes of " Spotiswood Letters ", " The Proceedings of the Society ", and circulars.

WABASH COLLEGE, Crawfordsville, Ind., Rev. Joseph F. Tuttle, D. D., LL. D., President.
Annual Catalogue 1887-'88.

WALTHAM PUBLIC LIBRARY, Waltham, Mass., Sumner Johnston, Librarian.
Catalogues, Photographs, Rules and Administration Blanks.

WARWICK LIBRARY, Warwick, Mass.
Rules of the Library and a Report of the Circulation.

WASHBURN COLLEGE, Topeka, Kansas, Rev. Peter Mc Vicar, A. M., D. D., President.
Annual Catalogue, 1887-'88.

WASHINGTON & LEE UNIVERSITY, Lexington, Va., General G. W. C. Lee, President.
Three volumes of catalogues and addresses. Two volumes of text-books and one volume of notes. Course of Study. Two volumes of the "Southern Collegian". Portfolio of views.

WASHINGTON UNIVERSITY, St. Louis, Mo., William G. Eliot, D. D., President.
Annual Catalogues, 1887-'89.

WATERTOWN LIBRARY ASSOCIATION, Watertown, Conn., Miss N. E. Bronson, Librarian.
Report of Librarian. Copy of act of incorporation. Catalogue and Blanks of Administration of Library.

WELLESLEY COLLEGE, Wellesley, Mass., Miss Helen Schaefer, President.
Photographs, Catalogues, etc.

WESLEYAN UNIVERSITY, Middletown, Conn., Rev. J. W. Beech, D. D., LL. D., President.
Annual Catalogue, 1887-'88.

WESTERN COLLEGE, Toledo, Iowa, Rev. W. M. Beardshear, A. M., President.
Annual Catalogue, 1887-'88.

WEST VIRGINIA UNIVERSITY, Morgantown, W. Va., E. M. Turner, LL. D., President.
Annual Catalogue, 1887-'88.

WETTENBERG COLLEGE, Springfield, Ohio, Rev. S. A. Ort, D. D., President.
Catalogue for 1888-'89.

WHEATON COLLEGE, Wheaton, Ill., Charles A. Blanchard, President.
Annual Register, 1887-'88.

WILBERFORCE UNIVERSITY, Xenia, Greene Co., Ohio, Rev. S. T. Mitchell, A. M., President.
Catalogue for 1888-'89.

WM. JEWELL COLLEGE, Liberty, Mo., James G. Clark, LL. D., Chairman.
Annual Catalogue, 1887-'88.

WOBURN PUBLIC LIBRARY, Woburn, Mass., W. R. Cutter, Librarian.
Photographs of the building, etc. The Fourth annual Report of the Board of Trustees.

WOFFORD COLLEGE, Spartanburg, S. C., James H. Carlisle, A. M., LL. D., President.
Annual Catalogue, 1887-'88.

WOMAN'S JOURNAL, 3 Park st., Boston, Mass.
Publications.

WOMAN SUFFRAGE ASSOCIATION, 3 Park st., Boston, Mass.
Publications.

WOOD, DE VOLSON, Hoboken, N. J.
Text-Books on Thermodynamics.

WOODBURY LIBRARY, Woodbury, N. J., Alfred S. Marshall, Librarian.
Catalogue of books, Rules. Regulations and Blanks.

WORCESTER POLYTECHNIC INSTITUTE, Worcester, Mass., Homer F. Fuller, Ph. D., President.
Current numbers of the " W. P. I. " Photographs of the editors of the " W. P. I. " Catalogues for 1888-'89.

YALE UNIVERSITY, New Haven, Conn., Rev. Timothy Dwight, D. D., LL. D., President.
Report of President, 1888. Annual Catalogue, 1888-'89.

YOUNG MEN'S CHRISTIAN ASSOCIATION, New Orleans, La.
Constitution and By-Laws, Report of Treasurer and Blanks used in Administration of the Library.

YOUNG MEN'S CHRISTIAN ASSOCIATION, New York City, Thos. K. Cree, Secretary.
Pictures of American Young Men's Christian Association Buildings and Statistical Information, and Reports of the Association.

Y. M. C. A. LIBRARY, Meriden, Conn., W. A. Venter, Librarian.
Three Catalogues of books. Blanks of Administration.

YOUNG MEN'S CHRISTIAN UNION, Boston, Massachusetts.
Photographs, Blanks, and Reports.

CLASS 9.—*Printing and Books.*

ADIRONDACK RAILROAD COMPANY, Saratoga, N. Y.
Copies of the "Birch Bark of the Adirondacks", specimen advertising publications.

AGRICULTURAL AND MECHANICAL COLLEGE, Miss.
Current Numbers of the "Reflector."

AMERICAN AGRICULTURIST CO., New York City.
Current Numbers of the "American Agriculturist".

AMERICAN BOOKSELLER, 10 Spruce st., New York, N. Y.
Books and periodicals.

AMERICAN PERIODICALS.

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"AMERICA",	Chicago, Ill.
"AMERICAN AGRICULTURIST",	New York City.
"AMERICAN BOOKMAKER",	New York City.
"AMERICAN CONTRACTOR",	Chicago, Ill.
"AMERICAN JOURNAL OF EDUCATION",	St Louis, Mo.
"AMERICAN LAW REGISTER",	Philadelphia, Pa.
"AMERICAN MACHINIST",	New York City.
"AMERICAN STATIONER",	New York City.
"AMERICAN TEACHER",	Boston, Mass.
"AMHERST STUDENT",	Amherst, Mass.
"BAPTIST MISSIONARY MAGAZINE",	Boston, Mass.
"BALDWIN'S TEXTILE DESIGNER",	Brasher Falls, N. Y.
"BREWERS JOURNAL",	New York City.
"CARPENTER AND BUILDER",	New York City.
"CHIRONIAN",	New York City.
"COLUMBIA SPECTATOR",	New York City.
"COLUMBUS DESPATCH",	Columbus, Ohio.
"CROCKERY AND GLASS JOURNAL",	New York City.
"DICKINSON LIBERAL",	Williamsport, Pa.
"EDUCATIONAL COURANT",	Louisville, Ky.
"EDUCATIONAL GAZETTE",	Rochester, N. Y.
"EDUCATIONAL NEWS",	Philadelphia, Pa.
"ELECTRIC POWER",	New York City.
"ELECTRICAL ENGINEER",	New York City.
"ELECTRICAL REVIEW".	New York City.
"ENGINEERING AND MNING JOURNAL",	New York City.
"EVANGELIST",	New York City.
"FARM IMPLEMENT NEWS"	Chicago, Ill.

"Fort Worth Gazette",	Fort Worth, Texas.
"Illinois School Journal",	Bloomington, Ill.
"Indiana School Journal",	Indianapolis, Ind.
"Indicator",	Hoboken, N. J.
"Industrial World and Iron Worker."	Chicago, Ill.
"Intelligence",	Chicago, Ill.
"Journal of Engineering",	Lehigh College, Pa.
"Monthly Bulletin",	New York City.
"Musical Journal",	Philadelphia, Pa.
"National Laundry Journal",	Chicago, Ill.
"New York Observer",	New York City.
"Ogontz Mosaic",	Ogontz, Pa.
"Paper Trade Journal",	New York City.
"Photographic Bulletin",	New York City.
"Power",	New York City.
"Railway News",	New York City.
"Reflector",	Agricultural College, Miss.
"St. Nicholas",	New York City.
"St. Paul Despatch",	St Paul, Minn.
"Science",	New York City.
"Southwestern Journal of Education",	Nashville, Tenn.
"Swarthmore Phœnix",	Swarthmore, Pa.
"Swiss Cross",	New York City.
"The Academy",	Syracuse, N. Y.
"The Alabama Teachers Journal",	Cincinnati, Ohio.
"The American Carbonater",	New York City.
"The American Grocer",	New York City.
"The American Journal of Medical Science",	Philadelphia, Pa.
"The American Mail and Export Journal"	New York City.

"The American Merchant"	New York City.
"The American Rural Home",	Rochester, N. Y.
"The Angola Record",	Angola, N. Y.
"The American Teacher",	Boston, Mass.
"The Art Interchange",	New York City.
"The Artisan",	Cincinnati, Ohio.
"The Baptist Missionary"	Boston, Mass.
"The Bee-keeper's Advance",	Mechanics Falls, N. Y
"The Bicycleing World",	Boston, Mass.
"The Brick, Tile and Pottery Gazette",	Ottawa, Ill.
"The Buffalo International Fair Journal",	Buffalo, N. Y.
"The Buffalo Morning Express",	Buffalo, N. Y.
"The Burlington Hawk Eye",	Burlington, Iowa.
"The Butcher's Advocate",	New York City.
"The California Cackler",	San Francisco, Cal.
"The Century",	New York City.
"The Chicago Tribune",	Chicago, Ill.
"The Chronicle",	Ann Arbor, Mich.
"The Clay Worker",	Indianapolis, Ind.
"The College Star",	Warrenton, Mo.
"The Commoner and Glass Worker",	Pittsburg, Pa.
"The Decorator and Furnisher",	New York City.
"The Duluth Evening Herald",	Duluth, Minn.
"The Educational Journal of Virginia",	Richmond, Va.
"The Educational World",	New York City.

"The Engineering and Building Record",	New York City.
"The Evening Gazette",	Reno, Nevada.
"The Farm and Home",	Springfield, Mass.
"The Forum",	New York City.
"The Fountain",	York, Pa.
"The Fur Trade Review",	New York City.
"The Furniture Worker",	Cincinnati, Ohio.
"The Golden Rule",	Boston, Mass.
"The Grant County Wisconsin",	Lancaster, Wis.
"The Harness Gazette",	Rome, N. Y.
"The Hat Review",	New York City.
"The Haverfordian",	Haverford College, Pa.
"The Hub",	New York City.
"The Indiana Farmer",	Indianapolis, Ind.
"The Indicator",	Detroit, Mich.
"The Inland Architect",	Chicago, Ill.
"The Iron Age",	New York City.
"The Jewellers Weekly",	New York City.
"The Journal of Education",	Boston, Mass.
"The Journal of the Engineering Society",	Lehigh University, Pa.
"The King's Messenger",	Boston, Mass.
"The Lafayette",	Easton, Pa.
"The Lehigh Burr",	South Bethlehem, Pa.
"The Locomotive Engineer",	New York City.
"The Lumber Trade Journal",	New York City.
"The Lumber Worker",	Cincinnati, Ohio.
"The Magazine of Western History",	New York City.
"The Massachusetts Ploughman",	Boston, Mass.

"The Medical News",	New York City.
"The Medical News",	Philadelphia, Pa.
"The Mercantile and Financial Times",	New York City.
"The Metal Worker",	New York City.
"The Millstone",	Indianapolis, Ind.
"The Minneapolis Journal",	Minneapolis, Minn.
"The Morning Star",	Boston, Mass.
"The National Cooper's Journal",	Buffalo, New York.
"The National Educator",	Allentown, Pa.
"The Nebraska Farmer",	Lincoln, Neb.
"The New York Lumber Trade Journal",	New York City.
"The New York Sportsman",	New York City.
"The News Letter",	San Francisco, Cal.
"The North Carolina Teacher",	New York City.
"The Office",	New York City.
"The Ohio Educational Monthly",	Akron, Ohio.
"The Painters Journal",	Chicago, Ill.
"The Paper Trade Journal",	New York City.
"The Pharmaceutical Record",	New York City.
"The Philadelphia Carpet Trade",	Philadelphia, Pa.
"The Polytechnic",	Troy, N. Y.
"The Power and Transmission",	Mishawaka, Ind.
"The Presbyterian",	Philadelphia, Pa.
"The Railway Age",	New York City.
"The Railway News",	New York City.
"The Rocky Mountain Husbandman",	White Springs, Mont.

"THE SANITARUM",	New York City.
"THE SCHOOL BULLETIN",	Syracuse, N. Y.
"THE SCHOOL HERALD",	Chicago, Ill.
"THE SOUTHERN CULTIVATOR AND DIXIE FARMER",	Atlanta, Ga.
"THE SOUTHERN LUMBERMAN",	Nashville, Tenn.
"THE STANDARD",	Chicago, Ill.
"THE STREET RAILWAY GAZETTE",	Chicago, Ill.
"THE STREET RAILWAY JOURNAL",	New York City.
"THE STUDENT",	Germantown, Pa.
"THE SUGAR BEET",	Philadelphia, Pa
"THE TEXAS SIFTINGS",	New York City.
"THE TECH",	Boston, Mass.
"THE TEXTILE COLORIST",	Philadelphia, Pa.
"THE TRADE BUREAU",	New York City.
"THE TROY DAILY TIMES",	Troy, N. Y.
"THE UNION OF THE CHURCHES",	Hiawassee College, Tenn.
"THE UNIVERSITY MIRROR",	Louisburg, Pa.
"THE WEEKLY NORTHWESTERN MILLER",	Minneapolis, Minn.
"THE WITNESS",	New York City.
"THE WORLD TRAVEL GAZETTE",	New York City.
"TIME",	New York City.
"TRUTH",	New York City.
"UNITED STATES SEWING MACHINE TIMES",	New York City.
"UNIVERSITY STUDENT",	Knoxville, Tenn.
"WILLIAMS LITERARY",	Williamstown, Mass.
"WISCONSIN JOURNAL OF EDUCATION",	Madison, Wis.

AMHERST COLLEGE, Amherst, Mass.
Current numbers of the "Amherst Student".

ANTHONY, E. & H. T., & CO., New-York City.
Current numbers of the " Photographic Bulletin ".

APPLETON, D., & CO., 105 Bond st., New York, N. Y.
Books.

ARMSTRONG & KNAUER, 822 and 824 Broadway, New-York, N. Y.
A volume entitled " The Manufactures of the United States for Domestic and Foreign Trade ".

BACON, G. A., Syracuse, N. Y.
Current numbers of the Academy.

BAIRD, HENRI, CAREY & CO., 810 Walnut st., Philadelphia, Pa.
Books.

BAKER, E. J., Publisher, Chicago, Ill.
Current numbers of " Farm Implement News ".

BALDWIN, A. A., Publisher, Brasher Falls, N. Y.
Current numbers of " Baldwin's Textile Designer ".

BARDEN, C. W , Syracuse, N. Y.
Books. Current numbers of " The School Bulletin ".

BARNES, A. S., & CO., 111 & 113 William st., New York City.
Books.

BARRETT, F. N., Editor, New York City.
Current numbers of " The American Grocer ".

BARRIE, GEORGE, 1313 Walnut st., Philadelphia, Pa.
Books.

BEATTY, CLAUDIUS F., 107 Prince st., New York, N. Y.
Samples of engraving and tip printing shown in the exhibit of R. Dunlap & Co., Manufacturers of hats.

BELDEN, A. L., Publisher, New York City.
Current numbers of " The Fur Trade Review " and " The Hat Review ".

BELL, W. A., Indianapolis, Ind.
Current numbers of the " Indiana School Journal ".

BELL PUBLISHING CO., 834 Broadway, New York City.
Copies of " The United States Sewing Machine Times " and other periodicals.

BICKFORD, C. A., Editor, Boston, Mass.
Current numbers of " The Morning Star ".

BOSTON & MAINE R. R. COMPANY, Boston, Mass.
Advertising publications called " Summer Excursions ", " Down East Latch Strings " and " Sea Shore, Lake & Mountains ".

BOWKER, R. R., Franklin Square, New York, N. Y.
Books and Periodicals.

BRAGG, Allen B., Reno, Nevada.
Current numbers of " The Evening Gazette ".

BRENTANO, A , 5 Union Square, New York N. Y.
Books and Periodicals.

BRICKELL, William D., Columbus, Ohio
Current numbers of the " Columbus Despatch ".

BROEN, Josephine de, 3 rue Clavel, Paris, France.
Books, brochures, papers, and photographs connected with the Temperance Society of America (W. C. T. U.)

BROWN, Geo. P., Bloomington, Illinois.
Current numbers of the " Illinois School Journal ".

BRUNNER, J. H., D. D., Pres. Hiawassee College, Tenn.
" The Union of the Churches ".

BURDETT, F. T., Boston, Mass.
Current numbers of " The Golden Rule ".

BURGESS, Miss M., Carlisle, Pa.
Current numbers of " The Indian Helper " and " The Red Man ".

BURR, W. H., C. E., Phœnixville, Pa.
Text-books on applied mechanics.

BUTCHERS PUBLISHING CO. (THE), New York City.
Current numbers of " The Butcher's Advocate."

CAROTHERS, R. H., Louisville, Ky.
Current numbers of the " Educational Courant ".

CENTRAL WESLEYAN COLLEGE, Warrenton, Mo.
Current numbers of " The College Star ".

CENTURY COMPANY (THE), New York City.
Books and current numbers of " The Century and St. Nicholas ".

CHARLES SCRIBNER'S SONS, New York City.
A copy of the " Statistical Atlas ".

CHIEF COMMISSIONER OF HIGHWAYS, Philadelphia, Pa.
Annual reports for 1884-'85.

CLARK, John F., Lessee & Publisher, New York City.
Current numbers of " The American Merchant ".

CLARKE, A. F., Williamston, Mass.
Current numbers " of The Williams Literary Monthly ".

COHEN & CO., Publishers, Cincinnati, Ohio,
Current numbers of: " The Artisan ", " The Furniture Worker " and " The Lumber Worker ".

COLE, GEORGE W., Chicago, Ill.
Various catalogues of libraries prepared by him.

COLUMBIA COLLEGE, New York City.
Current numbers of the " Columbia Spectator ".

CONTANSEAU, L., 171 Broadway, New York City.
" Monthly Bulletin ".

CORTHELL, W. G., Boston, Mass.
Current numbers of " The King's Messenger ".

CRARY, J. D., New York City.
Current numbers of " The New York Lumber Trade Journal ".

CURTIN, HUGH A., 65 Duane st., New York City.
" The United States Business Directory of Merchants and Manufacturers of the United States and South America ".

DALZIEL, DAVISON, New York City.
Current numbers of " The Truth ".

DARLING, LINUS, Publisher, Boston, Mass.
Current numbers of " The Massachusetts Ploughman ".

DODD, MEAD & CO., 753 Broadway, New York City.
Publications.

DONALD, JR., G. L., Agricultural College, Miss.
Current numbers of " The College Reflector ".

DOWST, CHAS, Publisher, Chicago, Ill.
Current numbers of " The National Laundry Journal ".

D. H. RAUCH PUBLISHING CO., Indianapolis, Ind.
Current numbers of " The Millstone ".

EDUCATIONAL GAZETTE CO., Rochester, N. Y.
Current numbers of " The Educational Gazette ".

EDUCATIONAL PUBLISHING CO., Boston, Mass.
Current numbers of " The Popular Educator ".

EDWARDS, B., & CO., Chicago, Ill.
Current numbers of the " American Contractor ".

ELECTRIC POWER PUBLISHING CO., New York City
Current numbers of " Electric Power ".

ESTES & LAURIAT, 301 Washington st., Boston Mass.
Publications.

FINDLEY, SAMUEL, Akron, Ohio.
Current numbers of " The Ohio Educational Monthly " and " National Teacher ".

FISHEL, ADLER & SCHWARTZ, 94 Fulton st., New York, N. Y.
Etchings and Engravings.

FISKE, HARRISON GREY, 145 Fifth Ave., New York, N. Y.
Theatrical Periodicals.

FORBES & PAIGE, Winter Park, Florida.
Specimen advertising literature " The Seminole ".

FORT WORTH DAILY GAZETTE CO., Fort Worth, Texas.
Current numbers of " The Fort Worth Daily Gazette ".

FOX, WILLIAM F., Richmond, Va.
Current numbers of " The Educational Journal of Virginia ".

FRANK'S HEIRS, DR. M. Publishers, Phila., Pa.
Current numbers of " The Textile Colorist ".

FREIDENKER PUBLISHING CO., Wisconsin.
Current numbers of the " Erziehungs Blatter ".

FRENCH, GEORGE, Editor, Duluth, Minn.
Current numbers of " The Duluth Evening Herald ".

GALLISON & HOBRON CO. (THE), 696 and 698 Broadway, New York, N. Y.
Trade Journals and Lithographs.

GARRETT, MARTHA A., Germantown, Pa.
Current numbers of " The Student ".

GEBBIE & HASSON CO., 900 Chestnut st., Philadelphia, Pa.
Photo-engravings.

GEBBIE & CO., 900 Chestnut st., Philadelphia, Pa.
Publications.

GINN & CO., New York, Boston, Chicago.
Educational Text-books.

GOODMAN & DICKERSON, Chicago, Ill.
Current numbers of " The Standard ".

GOULD & WOOLLEY, Philadelphia, Pa.
Current numbers of " The Philadelphia Musical Journal ".

GRAND PACIFIC HOTEL, Chicago, Ill.
Specimen of hotel advertising literature.

GRANT, B. E., Troy, N. Y.
Current numbers of " The Polytechnic ".

GRETZINGER, WILLIAM C., Lewisburg, Pa.
Current numbers of " The University Mirror ".

HARRIS, E. P., New York City.
" The Street Railway Journal ".

HARRIS, J. B., Wilton, Iowa.
" Book-keeping for the Masses ".

HARVARD DAILY CRIMSON, Cambridge, Mass.
One bound volume, No. XIV, and Current Numbers of the Paper and a Photograph of the Editorial Staff.

HARRELL, EUGENE G., Raleigh, N. C.
Current numbers of " The North Carolina Teacher ".

HAVERFORD COLLEGE, Montgomery Co., Pa.
Current numbers of the " Haverfordian ".

HAYS, J. MINIS A. M., M. D., Philadelphia, Pa.
Current numbers of " the American Journal of the Medical Sciences ".

HEATH, H. E., & BROTHER, Publishers, Lincoln, Neb.
Current numbers of " The Nebraska Farmer ".

HIGBEE, E. E., Lancaster, Pa.
Current numbers of " The Pennsylvania School Journal ".

HODGES, N. D. C., New York City.
Current numbers of " Science ".

HORNE, A. R., Allentown, Pa.
Current numbers of " the National Educator ".

HOUGHTON MIFFIN & CO., Cambridge, Mass.
The " River Side Press " Books and Publications.

HOWARD LOCKWOOD & CO., New York City.
Current numbers of " The Paper Trade Journal ", " American Stationer ", " American Bookmaker " and " The American Mail and Export Journal ".

INLAND PRINTER CO., 183 Monroe st., Chicago, Ill.
Copies of " The Inland Architect " with Specimens of fine Printing.

INSPECTOR OF FINANCE OF VERMONT, Woodstock, Vt.
Three Annual Reports of the Inspector. Three vol-

umes of Laws of Vermont regarding Banks, Trust Companies, etc.

INSURANCE DEPARTMENT OF CONNECTICUT, Hartford, Conn.
Two volumes of Reports for 1888.

INSURANCE COMMISSIONERS OF KANSAS, Topeka, Kan.
Fourteen volumes of the Annual Reports of the Board, 1874 to 1888 inclusive.

INSURANCE DEPARTMENT, Lansing, Michigan.
Twenty volumes of Annual Reports of Fire, Life and Marine Insurance.

INSURANCE DEPARTMENT OF PENNSYLVANIA.
Two volumes of 15th Annual Report of Life, Fire and Marine Insurance.

INSURANCE DEPARTMENT OF WISCONSIN, Madison, Wis.
Two volumes of Reports of the Commissioners.

INTERIOR DEPARTMENT, Washington, D. C.
Twenty-three volumes of the Census of 1880, and a Portfolio of Statistical Charts. Two Volumes of the "Official Register of the United States for 1887". Three Volumes of Annual Reports, Bureau of Labor. Three Volumes of the Land Laws of the United States. One Volume of "the Public Domain". The Fourth Annual Report of the U. S. Civil Service Commission. Two Volumes of Report of the Secretary of the Interior 1887.

IRELAN, WILLIAM JR., State Mineralogist of California, Sacramento, Cal.
Three Annual Reports, 1886-'88 inclusive.

JOHNS HOPKINS UNIVERSITY PUBLICATION AGENCY, Howard st., Baltimore, Md.
Books, Photographs, Periodicals, etc.

JOHNSON, CHAS. B., & CO., 105 Madison st. Chicago, Ill.
Samples of Printing.

JOHNSON, B. F., & CO., 1009 Main st., Richmond, Va.
Books, Bibles, Albums, etc.

JOHNSTON, W. J , New York City.
Current numbers of " The Electrical World ".

KELLY, J. M., Pittsburgh, Pa.
Current numbers of " The Commoner and Glass-worker ".

KENEALY, ALEX. C. New York City.
Current numbers of the " Railway News ".

KENNETT, T. A., New York City.
Current numbers of " The Decorator and Furnisher ".

KESSLER, J. L., Warrenton, Mo.
Current numbers of the " College Star ".

KNOX, THOMAS W., New York City.
Books : " Boy Traveller Series ", etc.

KNOX, J. ARMORY, New York City.
Current numbers of the " Texas Siftings ".

LAFAYETTE COLLEGE, Easton, Pa.
Current numbers of " The Lafayette ".

LANDON, WESTON MRS. Publisher, Angola, N. Y.
Current numbers of " The Angola Record ".

LEA BROTHERS & CO., Philadelphia, Pa.
Current numbers of " Medical News ".

LEAVENWORTH & BURR PUBLISHING CO., Detroit, Mich.
Current numbers of " The Indicator ".

LEHIGH COLLEGE, South Bethlehem, Pa.
Current numbers of "the Lehigh Burr" and "Journal of Engineering".

LINDSAY, ROBERT M., 1028 Walnut st., Philadelphia, Pa.
Books and Etchings.

LIPPINCOTT, J. B., & CO., 715 Market st., Philadelphia, Pa.
Books.

LOTHROP, D., & Co,, Franklin st., Boston, Mass.
Books.

MACANN, JOHN A., Publisher, Buffalo, N. Y.
Current numbers of "The National Cooper's Journal".

MACCLURG, A. C., & CO., Wabash Ave., Chicago, Ill.
Books.

MARRIOTT, F., Editor, San Francisco, Cal.
Current numbers of "The News Letter".

MASON, JAMES B., Editor and Publisher, Mechanics Falls, N. Y.
Current numbers of "The Bee-Keeper's Advance".

MASSACHUSETTS INSURANCE COMMISSION, Boston, Mass.
Annual Report of the Commission for 1888.

MASTERS, GEO, Swarthmore, Pa.
Current numbers of the "Swarthmore Phœnix".

MATTHEWS, GEO. E., & CO., Publishers, Buffalo, N. Y.
Current numbers of "The Buffalo Morning Express".

MERCANTILE & FINANCIAL TIMES CO., New York City.
Current numbers of the "Mercantile and Financial Times".

MERRIAM, G. C., & CO, Springfield, Mass.
Dictionaries.

MEYER, HENRY C., New York City.
Current numbers of " The Engineering and Building Record ".

MILLER, HORACE B., New York City.
Current numbers of the " American Machinist ".

MINER, WM. B., Publisher, Lancaster, Wis.
Current numbers of " The Grant County Herald ".

MITCHELL, J. C , & CO., 830 Broadway, New York, N. Y.
Periodicals.

MUTCHMORE & CO., Philadelphia, Pa.
Current numbers of " The Presbyterian ".

MYRICK, HERBERT, Editor, Springfield, Mass.
Current numbers of " The Farm and Home ".

NATIONAL ACADEMY OF SCIENCE, Washington, D. C.
Three volumes of " Memoirs ".

NATIONAL ELECTRIC LIGHT ASSOCIATION, 16 E. 23rd st., New York, N. Y.
Five volumes of Official Proceedings.

NAVY DEPARTMENT, U. S., Washington, D. C.
BUREAU OF MEDICINE AND SURGERY. Ten Volumes of the Annual Reports of the Surgeon General, 1878-1888.
" Yellow fever on U. S. S. Plymouth " and " Instructions for Medical Officers ".

BUREAU OF PROVISIONS AND CLOTHING. " Regulations relating to Pay Department of the U. S. Navy ", Pay Table, Report of Pay-Master General for 1888.

BUREAU OF STEAM ENGINEERING. Report of a Standard Gauge for Bolt, Nut and Screw Threads for the U. S. Navy 1868.

BUREAU OF YARDS AND DOCKS. Origin, History, Laws, and Regulations of the U. S. Naval Asylum at Phila., Pa. Report of Board of Civil Engineers on the Improvement of the Naval Station at New London, Ct. Report of Board of Civil Engineers for the Improvement of the Navy Yard at Mare Island, Cal. Report of the Board of Civil Engineers for the Improvement of the Navy Yard at League Island. History of the Navy Yard at Gosport, Va.

HYDROGRAPHIC OFFICE. Publications.

NAUTICAL ALMANAC OFFICE. Publications.

NUTT, JOHN J., Evanston, Ill.
Current numbers of the " High School Journal ".

NEW ENGLAND PUBLISHING COMPANY, Boston, Mass.
Current numbers of " The Journal of Education " and " The American Teacher ".

NEW YORK BANK NOTE CO., 1 Broadway, New York, N. Y.
Specimens of Bank Note Engraving.

NEW YORK EVANGELIST CO., New York City.
Current numbers of " The Evangelist ".

NEW YORK OBSERVER CO., New York City.
Current numbers of the " New York Observer ".

OGONTZ SCHOOL FOR YOUNG LADIES, Ogontz, Pa.
Current numbers of the " Ogontz Mosaic ".

ORANGE JUDD & CO. (THE), 751 Broadway, New York City.
Books.

OSMAN, BROTHER, Publisher, Ottawa, Ill.
Current numbers of " The Brick, Tile and Pottery Gazette ".

PACKARD, PROF. A. S., BROWN UNIVERSITY, Providence R. I.
Three volumes on Zoology and Entomology. Two volumes on Embryology. One volume on Zoology.

PALMER, C. M., Publisher, Minneapolis, Minn.
Current numbers of " The Weekly Northwestern Miller ".

PALMER, F. W., Chicago, Ill.
Current numbers of " The Industrial World " and " Iron Worker ".

PARKS, C., WELMAN, Troy, N. Y.
Collective exhibit of periodicals and photographs of editorial staffs.

PETERS, W. O., Editor & Publisher, New York City.
Current numbers of " The American Carbonator ".

PERRIN & SMITH, St. Louis, Mo.
Current numbers of the " American Journal of Education ".

PHELPS, GEO. M., New York City.
Current numbers of the " Electrical Engineer ".

PHOTO-ELECTROTYPE ENGRAVING CO., 20 Cliff st., New York City.
Photo-Engravings.

POPE, R. W., New York City.
Transactions of Society of Electrical Engineers.

PRANG, L., & CO., 286 Roxbury st., Boston, Mass.
Books and Chromo-lithographs.

PUBLIC SCHOOL JOURNAL CO., Mt. Washington, Ohio.
Current numbers of " The Public School Journal ".

RAILROAD COMMISSIONERS OF ALABAMA, Montgomery, Ala.
Two volumes of annual Reports of the Board.

RAILROAD COMMISSIONER OF CONNECTICUT, Harford, Ct.
Twelve volumes of Reports of the Board.

RAILROAD COMMISSION OF IOWA, Des Moines, Iowa.
A Map of the State of Iowa and nine volumes of the Annual Reports of the Commissioners.

RAILROAD COMMISSIONERS OF VIRGINIA, Richmond, Virginia.
One volume Report for 1888.

RAILROAD COMMISSION OF WISCONSIN. Madison, Wis.
Six volumes of annual Reports of the R. R. Commission of Wisconsin.

RAILWAY COMMISSION OF OHIO, Columbus, Ohio.
Two volumes of the Annual Reports of the Board.

RAND, Mc NALLY & CO, 323 Broadway, New York, N. Y.
Maps, Map-cases, and Atlases.

RANDALL, T. A., & CO. Publishers, Indianapolis, Ind.
Current numbers of " The Clay Worker ".

RANSOM, C. M., 178 Devonshire st., Boston, Mass.
Periodicals.

RAUB, ALBERT N., Philadelphia, Pa.
Current numbers of " The Educational New ".

ST. PAUL DESPATCH CO., St. Paul, Minn.
Current numbers of the " Saint Paul Despatch ".

SCIENCE PUBLISHING CO., New York City.
Current numbers of " Science " and " Swiss Cross ".

SECRETARY OF INTERNAL AFFAIRS, Harrisburg, Pa.
Three volumes of the Annual Report of the Secretary.

SHELLEY, W. H., York, Pa.
Current numbers of " The Fountain ".

SLASON THOMPSON CO, Chicago, Ill.
Current numbers of " America ".

SMITH, JUSTIN A., D. D., Chicago, Ill.
Current numbers of " Standard ".

SOUTHWESTERN JOURNAL OF EDUCATION, W. R. Garrett & J. L. Lampson, Editors, Nashville, Tenn.
Current numbers of " Journal ".

STATE BOARD OF HEALTH, Lansing, Mich.
Annual Reports of the Board. Proceedings of convention.

STATE BOARD OF REGISTRATION OF MICHIGAN, Lansing, Mich.
Annual Reports of the Board.

STATE DEPARTMENT, Washington, D. C.
Annual Reports of the Secretary. Consular Reports.

STEARNS, J. W., Madison. Wis.
Current numbers of the " Wisconsin Journal of Education ".

STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, New Jersey.
Two bound volumes and current numbers of " The Stevens Indicator ". " The Eccentric " for 1888. " The Bolt " for 1887.

STOKES, FREDERICK A., Publisher, 182 Fifth Ave., New York, N. Y.
Books.

SUMMERS, JAMES COLLING, 168 Nassau st., New York City.
A book entitled " Who Won ? " The American Yacht Record & Guide.

SUTHERLIN BROTHERS, Publishers, White Sulphur Springs, Montana.
Current numbers of " The Rocky Mountain Husbandman ".

SWEETLAND, H. M., Publisher, New York City.
Current numbers of " Power-Steam ".

TAINTOR BROTHERS & CO., 18 Astor Place, New York City.
Books.

TALBOTT, E. H., Publisher, New York City.
Current numbers of " The Railway Age ".

TERQUEM, EMILE, 172 Mercer st., New York, N. Y.
Collective exhibit of books, prints, etc. from a number of American publishers. (Special catalogue.)

THE AMERICAN BAPTIST MISSIONARY UNION, Boston, Mass.
Three bound volumes and current numbers of the " Baptist Missionary Magazine ".

THE BICYCLING WORLD CO., Boston, Mass.
Current numbers of " The Bicycling World and L. A. W. Bulletin ".

THE BUFFALO INTERNATIONAL FAIR ASSOCIATION, Buffalo, N. Y.
Current numbers of " The Buffalo International Fair Journal ". Geo. M. Bailey, Editor.

THE CALIFORNIA CACKLER CO., San Francisco, Cal.
Current numbers of " The California Cackler " (Poultry).

THE CHICAGO TRIBUNE PUBLISHING CO., Chicago, Ill.
Current numbers of " The Chicago Tribune ".

THE CULTIVATOR PUBLISHING CO., Atlanta, Georgia.
Current numbers of " The Southern Cultivator & Dixie Farmer ".

THE D. B. CANFIELD CO. LIMITED, Phila. Pa.
Current numbers of " The American Law Register ".

THE ENGINEERS' PUBLISHING CO., Chicago, Ill.
Current numbers of " The Street Railway Gazette ".

THE FORUM PUBLISHING CO., New York City.
Five bound volumes of " The Forum ", and current numbers for 1889.

THE HARNESS GAZETTE CO., LIMITED, Rome, N. Y.
Current numbers of " The Harness Gazette ".

THE HELPING HAND, Boston, Mass.
Current numbers of " The Helping Hand ".

THE HUB PUBLISHING CO., New York City.
Current numbers of " The Hub ".

THE INDIANA FARMER CO., Publishers, Chicago, Ill.
Current numbers of " The Indiana Farmer ".

THE INLAND PUBLISHING CO., Chicago, Ill.
Current numbers of " The Inland Architect ".

THE JEWELLERS' WEEKLY PUBLISHING CO., New York City.
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LYON, AMASA, & CO., H. E. Nicolay, Sec'y., 684 Broadway, New York, N. Y.
Umbrellas, Parasols, Walking Sticks, Whips, and Handles for these goods.

MAYER, STROUSE & CO., 412 Broadway, New York, N. Y.,
Manufactured Corsets and Clasps.

NOYES, JOSEPH P., Binghamton, N. Y.
Buttons for attaching to clothes automatically.

ROTH & GOLDSCHMIDT, 16 Walker st., New York, N. Y.
Corsets.

WOGAN, A. R., & CO., 55 Boerum st., Brooklyn, N. Y.
Fancy Jet and other Buttons.

CLASS 36.—*Wearing apparel for both sexes.*

BENEKE BROS., 199 and 201 Canal st., New York, N. Y.
Hand-made Boots and Shoes.

BOSTON RUBBER SHOE CO., Boston, Mass.
Rubber Boots and Shoes.

CHANUT, JEAN M.
Ladies and Gentlemen's Kid Gloves.

DELLAC, MADAME S., 24 West 24th st., New York, N. Y.
Dinner dress.

DUNLAP, R., & CO., New York, N. Y.
Silks Hats, Opera Hats, Cassimere Hats, Straw Hats, Stiff and Soft Felt Hats.

FRANKLIN. 5th Ave. and 20th st., New York, N. Y.
Boys Velveteen Suit, of American Manufacture.

FRIEDLANDER, A., & CO , 377 Broadway, New York.
Cloaks for Ladies.

HOUGH & FORD, 111 Mill st., Rochester, N. Y.
Ladies' Fine Shoes.

SCHLOSS, N. J., & CO., 653 and 655 Broadway, New York. N. Y.
Clothing for Children.

SENDKER, ALFRED H., 309 Michigan st., Buffalo, N. Y.
Men's Shoes, hand-sewed.

SHILLABER & CO., Lynn, Mass.
Ladies' and Misses' Boots and Shoes.

SIEGEL BROTHERS, Wooster st. and S. Fifth Ave., New York, N. Y.
Ladies' and Misses' Underwear.

STETSON, JOHN B., CO., 4th st. and Montgomery ave., Philadelphia, Pa.
Fine Fur Hats; Soft and Stiff Felt Hats.

CLASS 37.—*Jewelry and Precious Stones.*

DRAKE COMPANY, Francis C. Hatch, Agent, St. Paul, Minnesota, and Sioux Falls, South Dakota.
Arizona Petrified wood, embracing, tabletops, ornamental articles, jewelvy, polished section showing perfect heart and bark of trees and tiling for interior decoration.

HAMLIN, AUG. C., M. D., Bangor, Maine.
Tourmaline gems : a series of cut specimens showing the various colors of the gem occurring at Mt. Mica, Maine.

HORTON, ANGELL & CO., Attleboro', Mass.
Sleeve Buttons, Collar Buttons, Studs, and other jewelry : Chains, Charms, Rings, etc.

KENT & STANLEY, Providence, R. I.
Seamless Filled Gold Chains.

RIDER, S. A., & CO., 502, 504, 506 N. 6th st., St. Louis, Mo.
Hot Springs White-stone Brilliants; Florida Shell and Sea-Bean Work; Alligator Teeth Jewelry.

TIFFANY & CO., Union Square, New York, N. Y.
Jewelry of precious metals, chased, carved, enameled. Inlays of precious metals, etched, engraved, and mounted, filigreed, adorned with precious stones and pearls. Diamonds and other precious stones, unset, cut and uncut. Carved rock crysptal, American cutting. American pearls.

UIBEL & BARBER, 39 Vesey st., New York, N. Y.
Alligator Teeth, Sea-Bean, and Sea-Shell Jewelry.

CLASS 38.—*Portable weapons. Hunting.*

—

BAILEY, FARREL & CO., 619 Smithfield st., Pittsburgh, Pa.
Automatic Cartridge Loaders.

COLTS PATENT FIRE ARMS MANUF. CO., Hartford, Conn.
Fire Arms, Pistols, Rifles, and Revolvers.

SMITH & WESSON, Springfield, Mass.
Revolvers.

STANDARD TARGET CO., 121 Superior street, Cleveland, Ohio.
Target Traps and Cases of targets.

UNION METALLIC CARTRIDGE CO., M. Hartley, President, Bridgport, Conn.
Models of ammunition.

WINCHESTER REPEATING ARMS CO., New Haven, Conn.
Fire Arms; Sporting and Military Metallic Ammunition; Reloading Tools.

CLASS 39.—*Articles for Travelling and camp Equipage.*

FOLDING TRUNK CO., 712 Broadway, New York, N. Y.
Patent Folding Trunks.

LAWRENCE, R. F., & CO., 196 Pearl st., Buffalo, N. Y.
Bouquet Holders.

MARKS ADJUSTABLE FOLDING CHAIR CO., LIMITED., F. R. Marks, President, 980 Broadway, New York, N. Y.
Adjustable Folding Chairs, Gynaecological Chairs, Railway Car Chairs, Invalid Rolling Chairs, Adjustable Reading and Writing Desks.

TORREY, J. R., & CO., Worcester, Mass.
Razor Strops.

CLASS 40.—*Toys.*

GENDRON IRON WHEEL CO., J. F. Vogel, Secretary, Toledo, Ohio.
Children's Carriages; Velocipedes, Bicycles, Tricycles; Toy Express Wagons, Barrows, etc.

HOWARD, A. H., 220 Devonshire st., Boston, Mass.

Boston Chest Weight, a gymnastic appliance for the house or gymnasium.

PIERCE, GEORGE N., & CO., Prime st., corner of Hanover st.. Buffalo, N. Y.

Tricycle and Bird Cage.

FIFTH GROUP.

Extractive Arts, Raw and Manufactured Products.

CLASS 41.—*Products of Mining and Metallurgy.*

—

ABEL, LINDLEY, Bayard, Yavapai County, Arizona.
Copper Pyrites Vein, bearing gold, from Humbug Gulch, Gold Ore from the Cleveland Lode.

ADAM, J. S., & CO., Canaan, Conn.
Specimen of Magnesian Limestone used for the manufacture of Lime.

ADAMS, F. F., & CO., Erie, Pa., B. M. Del Gado de Lemos, Agent, 19 rue Turgot, Paris.
Household utensils and cork pullers.

ADIRONDACK PULP CO , Troy, N. Y.
Talc as mined. Pulp made from the Talc.

ALICE GOLD & SILVER MINING CO., W. E. Hall, Superintendent, Walkerville, Montana.
Silver and Gold ores from the Alice Mine.

ANACONDA MINING COMPANY, Marcus Daly, Supt.
Butte and Anaconda Montana Copper ore; Copper ore concentrates; Copper Matte.

AUSABLE HORSE NAIL CO., 4 Warren street, New York, N. Y.
Horse Shoe Nails.

BAILEY, GEORGE M., 47 Chapin Block, Buffalo, N. Y.
Collection of Models of Inventions; Hardware and House-furnishing Specialties, and small specimens of Mechanism.

BAILEY, R. S., Silver Creek, N. Y.
Combination System for cutting Ladies' and Children's Garments and Men's Shirts.

BARNUM RICHARDSON & CO., Lime Rock, Conn.
Sample of carwheel iron ore from Salisbury, Conn.

BLAKE, WILLIAM P., MINING ENGINEER, New Haven, Conn.
Collection of mineral specimens from his private collection, including Stromeyerite, Vanadinite, etc.

BLANCHARD SLATE CO., Bangor, Maine.
Slabs of Split Slate.

BOAZ MINING COMPANY, Minnehaha, Yavapai County, Arizona.
Goldbearing Ore.

BOWEN, D., Prescott, Arizona.
Goldbearing Ore, Sulphurets and Oxidized. Grey-Eagle Claim, Arizona.

BRAINARD QUARRY CO., Portland, Conn.
Connecticut Brown Sand Stone.

BREWINGTON BAINBRIDGE & CO., 1137 Sharp st., Baltimore, Md.
Household hardware and tinware.

BRISTOL COPPER & SILVER MINING COMPANY, Bristol, Conn., G. E. Hubbel, Manager.
Specimens of Copper ore from the Bristol Mine.

BUNKER HILL MINING AND CONCENTRATING CO., T. G. Reed, President, Wardner, Idaho, and Portland, Oregon.
Lead Ores containing Silver from the Company's Mines in the Cœur d'Alene Mountains, Idaho.

BUNKER HILL & SULLIVAN MINING CO.
Lead.

CACTUS MINING CO., Frisco, Beaner Co., Utah, W. L. Lay, Agent.
Ores and Minerals, Copper matte, etc.

CAPITOL MANUFACTURING COMPANY, Chicago, Ill.
Wrenches (Monkey and Pipe).

CARLISLE GOLD MINING CO., Carlisle, New Mexico.
Gold Ore, and sample of concentrate.

CASTLE, WILLIAM H., Geneva, Ohio.
Carpet Sweepers; Animal Traps; Pillow Sham Holders; Bracket Clothes Bars, etc.

CLEVELAND TIN MINING CO., Deadwood, Black Hills, Dakota.
Tin Ores and Tin from Dakota.

COLLECTIVE EXHIBITION of Examples of Ores and Minerals of the United States, with Statistics. Prepared under the Direction of the United States Commission by Prof. W. P. Blake, Special agent.

Alphabetical list of Exhibitors and Contributors in Collective Exhibit :

ABADIE, EMILE R.,	Gold Ore.
ADAM & CO.,	Limestone.
ALASKA LEAD ORE,	Lead.
ALICE GOLD AND SILVER MINING CO.,	Silver and Gold Ore.

Anaconda Mining Co.,	Copper Ore.
Barnum, Richardson Co.,	Iron Ore.
Blake, William P.,	Minerals.
Blanchard Slate Quarry Co.,	Slate.
Boaz Mining Co.,	Gold Ore.
Bradford Quicksilver Mine,	Quicksilver.
Bristol Copper & Silver Mining Co.,	Copper Ores.
Brown, Will Q.,	Nickel Ores.
Bunker Hill & Sullivan Mining Co.,	Lead.
Cactus Mining Co.,	Copper and Silver.
Canfield, Fredk. A.,	Iron Ore.
Carlisle Gold Mining Co.,	Gold Ore.
Chambers, R. C.	Silver Ores.
Chateaugay Ore & Iron Co.,	Iron Ore.
Cleveland Tin Mining Co.,	Tin Ore.
Comfort Consolidated Mining Co.,	Gold Ore.
Comfort, S., Treasurer,	Gold Ore.
Congress Mine,	Gold Sulphurets.
Copper Basin Mining Co.,	Copper Ores.
Cowles Electric Smelting & Aluminum Co.,	Aluminum Alloys.
Daly, Marcus,	Copper Ores.
Daly Mining Co.,	Silver Ores.
Davis Company, The,	Pyrites.
Davis, H. J.,	Pyrites.
Day, Fred. W.	Antimony Ore.
Dead Horse Claim,	Gold Ore.
Deadwood Terra Mining Co.,	Gold Ore.
Delaware & Hudson Canal Co.,	Anthracite Coal.
Delhi Mine,	Gold Ore.

Dickerson Suckasunny Mining Co.,	Magnetic Iron Ore.
Drake, Jas. B., Pres.,	Ornamental Stone.
Drake Company (The),	Ornamental Stone.
Empire Original Gold Mining Co.,	Gold.
Germain, H., Supt.,	Gypsum.
Grey Eagle Mine,	Gold Ore.
Haggin, J. B , Pres.,	Gopper and Gold Ores.
Hague, Jas. D., Pres.,	Cold Ores.
Hall, W. E., Supt.,	Silver Ores.
Halsey, A., Secy.,	Ores and Fertilizers.
Hamlin, Dr. Aug. C.,	Slate, Mineral Gems.
Harts Mine,	Gold Ore.
Hayward, Alvinza,	Gold Ores.
Highland Mining Co ,	Gold.
Homestake Mining Co.,	Gold Ore.
Hubbel, E. G.,	Copper Ore.
Idaho Quartz Mining Co.,	Gold Ore.
Kunz, Geo. F.,	Minerals.
Lady of the Hills Claim,	Antimony Ore.
Lake, Richd. C.,	Antimony Ore.
Lay, Wm. L.,	Copper and Silver.
Lexington Mine,	Silver.
Lincoln Bessemer Co.,	Magnetic Iron Ore.
Lindley Abel,	Gold Ores.
Longmaid, J. Henry,	Gold Ore.
Marsh & Co.,	Gypsum.
Marshall, Thos. P.,	Iron Ore.
Merrill, Miles J.,	Graphite.
Mexican Phosphate & Sulphur Co.,	Fertilizers.
Mica Properties,	Mica.
Mitchell, Vance & Co.,	Columbia Semi-Bituminous Coal.
Montana Company, Limit.	Gold and Silver.
Murphy, Fred. W.,	Gold Ores.
New Jersey Zinc & Iron Mining Co.,	Zinc Ores.

NEWHALL & CO., AGTS.,	Borax, Ores, etc.
NEW YORK & GEORGIA MANGANESE & IRON CO.,	Manganese.
NORTH STAR MINING CO.,	Gold.
ONTARIO SILVER MINING CO.,	Silver.
OREGON IRON & STEEL CO.,	Iron Ores.
OREGON NICKEL MINES CO.,	Nickel Ore.
ORIGINAL EMPIRE MILL & MINING CO.,	Gold.
ORO BELLA MINING CO.,	Gold.
PLYMOUTH MINE,	Gold.
PRICE, PROF. THOMAS,	Ores and Minerals.
PUGET SOUND IRON CO.,	Charcoal Iron.
QUIJOATOAS MINES;	Minerals.
RANDOL, J. B., PRES.,	Quicksilver.
REED, SIMEON G.,	Silver lead Ores.
RUEGER, CHAS. C., SUPT.,	Silver.
SENATOR MINE,	Auriferous Pyrites.
SILVER KING MINING CO.,	Silver.
TUTTLETOWN CLAIM,	Gold.
WALKER, J. R.,	Uintahite.
WEST VIRGINIA CENTRAL RAILWAY CO.,	Bituminous Coal.
WILLIAMS,	Copper Ores.

COMET MINING CO., Frisco, Beaver Co., Utah. Copper and Silver Ores.

COMFORT CONSOLIDATED MINING CO., T. H. Wheeler, President, S. Comfort, Treasurer, New York.
Gold and Silver Ore from Rocky Bar, Idaho.

CONGRESS MINING COMPANY, Frederick W. Murphy, Superintendent. Prescott, Arizona.
Goldbearing Pyrites Ore.

CONROY, C. C., & COMFORT, S., Van Buren, Ohio.

Photograph, taken at night, of the burning gas from the Conroy & Johnson well.

Photograph of the burning gas issuing from the Karg Gas Well, Findlay, Ohio.

COPPER BASIN MINING COMPANY, Copper Basin, Prescott, Yavapais County, Arizona.

Specimens of Copper Ores; Malachite, and blue-Carbonate of Copper in sandstone and conglomerate.

COWLES ELECTRIC SMELTING AND ALUMINUM CO., Lockport, N. Y., Dr. Leonard Walde, Manager.

Series of specimens of Corundum and of Aluminum Alloys; Silicon Bronze; Aluminum bronze, etc.

DALY MINING CO., R. C. Chambers, Supt., Park City, Summit County, Utah.

Silver, Lead and Gold ores from various parts of the Mine.

DAVIS, H. J., Franklin County, Mass.

Massive iron pyrites used for the manufacture of Sulphuric Acid.

DAY, FREDERICK W., Murray, Idaho.

Antimony sulphide; Tungstate of lime and gold-bearing Quartz.

DEADHORSE CLAIM, A. Hayward, Contributor, California.

Gold-bearing Quartz.

DELAWARE & HUDSON CANAL COMPANY, Coal and Iron Exchange, New York, N. Y.

Anthracite Coal : A series of cut and polished Specimens showing the fracture, color, lustre and density of Anthracite.

DELHI MINE, A. Hayward, Contributor, Nevada County, California.
Goldbearing Quartz.

DICKERSON SUCKASUNNY MINING CO., Frederick A. Canfield, Dover, N. J.
Magnetic Iron Ore, Dickerson Mine, Terro Monte, Morris Co., N. J.

DRAKE COMPANY, James H. Drake, President, Sioux Falls, South Dakota.
Building and Ornamental Stone, including a quartzite known as Sioux Falls "Jasper Granite".

DRUM LUMMON MINE, J. E. Clayton, Collector, Marysville, Montana.
Gold and Silver Ores.

EIGHTY-SIX MINE, Lynx Creek, Arizona.
Silver ore, assay value 100 dollars.

ENTERPRISE MANUFACTURING CO. OF PENNSYLVANIA, Philadelphia, Pa.
Hardware specialties.

FOOTE, A. E., 1223 Belmont Avenue, Philadelphia, Pa.
Minerals of the United States. Educational Collections illustrating the Science of Mineralogy.

HALL, W. E.
Silver Ores.

HAMLIN, Dr. A. C., Bangor, Maine.
Minerals from Mt. Mica, Paris, Maine.

HARNEY PEAK TIN MINING CO.
Tin Ore from Harney Peak, Black Hills, Dakota.

HARTMANN MANUFACTURING COMPANY, 102 Chambers street, New York, N. Y.
Steel Picket Fences, Steel Picket Gate, Steel Wire Mats, and Brass Wire Mats.

HATCH, DAN., Prescott, Arizona.
Gold & Copper ore from the Buena Vista Mine, near Prescott, Arizona.

HOMESTAKE MINING CO.
Gold Ore.

IDAHO QUARTZ MINING CO., Grass Valley County, Cal.
Gold bearing quartz.

INTERNATIONAL SPECIALTY CO., Buffalo, N. Y.
Perfected Automatic Twine Holder.

KNOWD, JOHN J., 25th & South streets, Philadelphia, Pa.
Steel Shoes for horses.

KUNZ, GEORGE F., Hoboken, N. J.
Large crystals of Fluor Spar from St. Lawrence Co., New York. Gadolinite, 11 pound crystal, from near Bluffton, Llano Co , Texas.

LINCOLN BESSEMER COMPANY, Thos. P Marshall, Secretary, Trenton, N. J.
Magnetic Iron Ore from Oxford Township, Warren County, N. J.

MAINE RED GRANITE COMPANY, Red Beach, Calais, Maine.
Polished Red Granite Urn. Red Granite Base with rough sides, top and molding fine cut.

MARSH & COMPANY, H. German, Supt., Gypsum, Ottawa County, Ohio.
Gypsum; first, second and third qualities.

MARSHALL, T. P., Trenton, New Jersey.
Magnetite Iron Ore. Bessemer Ore, Warren Co., N. J.

MERRILL, MITES J. Nashua, New Hampshire.
Graphite from Nelson, N. H.

MITCHELL, LAZAR & CO., Philadelphia. Pa.
Samples of Columbia Semi-Bituminous Coals.

MOORE'S, JOHN, SON, 193 Front street, New York, N. Y.
Hay and Manure Forks. Steel Hoes and Rakes.

MT. MICA COMPANY, AND A. C. HAMLIN. President, Bangor, Me.
Tourmaline gems: a series of cut stones illustrating the various Colors of the Tourmalines of Mt. Mica, Maine.

NEW ENGLAND BROWN STONE CO., Cromwell, Conn.
Connecticut Brown Sand Stone.

NEWHALL, H. M., & CO., San Francisco, Cal.
Cinnabar — "Float Ore", Cinnabar in Silicious Gangue. Bradford Mine, Napa Co., Cal. Specimens of Borax.

NEW JERSEY ZINC & IRON CO., Benj. G. Clarke, President, 52 Wall st., New York.
Ores of Zinc and Zinc Oxide from the Company Mines, Sussex County, N. Y.

NEW YORK AND GEORGIA MANGANESE AND IRON CO., 37 Broad street, New York, N. Y.
New Almaden Manganese Ore — called "Kidney Manganese",—from near Cartersville, Georgia.

NORTH STAR GOLD MINING CO., James D. Hague, Pres., Emile R. Abadie, Supt., Grass Valley, Nevada County, California.
Free Gold and auriforuus pyrites in quartz.

ONTARIO MINING CO., R. C. Chambers, Superintendent, Park City, Summit Co., Utah.
Silver, gold and lead ores from the different levels of the Ontario Mine.

OREGON IRON AND STEEL CO., S. G. Reed, President, Oswego, Oregon.
Samples of Hot Blast Charcoal Pig Iron, Iron Ores, Fuel and Flux.

ORIGINAL EMPIRE MILL & MINING CO., Jas. D. Hague, Pres., Grass Valley, Nevada County, California.
Auriferous Quartz from the Empire Mine.

ORO BELLA MINING COMPANY, Bayard, Yavapai Co., Arizona.
Gold bearing Quartz and Sulphurets.

PECK, A. G., & CO., Cohoes, N. Y.
Samples of Axes and Edge Tools.

PLYMOUTH MINE, A. Hayward, Contributor, Amador County, California.
Gold bearing Quartz.

PRICE, Professor THOMAS, San Francisco, Cal.
Gold ore from the Great Blue Lode, and other minerals.

PUGET SOUND IRON COMPANY, A. Halsey, Secretary.
Charcoal Pig Iron made at Port Townsend in Puget Sound, Washington Territory, from Ores, Magnetite in Limestone, mined at Texada Island, British Columbia.

RANDOL, J. B., San Francisco, Cal.
Quicksilver Ores from the New Almaden Quicksilver Mine, California, with photos. of mines.

REID, A. H., Corner 30th st & Market st., Philadelphia, Pa.
Samples of Lightning Braces.

SENATOR MINE, F. W. Mac Gowan, Superintendent, Prescott, Arizona.
Specimens of gold-bearing Sulphuret Ore.

SHALER & HALL QUARRY CO., Portland, Conn.
Connecticut Brown Sand Stone.

SILVER KING MINING CO., Pinal Co., Arizona.
Silver Ores and Concentrates.

SIRRET SCALE CO., Cuyahoga Falls, Ohio.
The Sirret Scale.

SOCIÉTÉ ANONYME DES MINES DE LEXINGTON, Butte, Montana, Charles C. Rueger, Superintendent.
Silver Ore, Lexington Mine.

STANDARD TARGET COMPANY, 121 Superior street, Cleveland, Ohio.
Set of Target Traps and Cases of Targets.

STONEWALL CLAIM, Lindley Abel, Owner, Bayard, Arizona.
Gold Ore-Small Vein.

TIFFANY & CO., Union Square, New York, N. Y.
Precious and Ornamental stones of North America, consisting of stones cut in the United States illustrating the various forms of cutting, crystals, cleavages, fractured pieces in their natural state and polished specimens; and a series of archaeological interest.

TUTTLETOWN CLAIM, A. Hayward, Contributor, Tuttletown, Cal.
Gold-bearing Quartz.

U. S. WAR DEPARTMENT, Washington, D. C.
Diagram and Report showing the results of a series of experimental trials to determine the relative value of the fuels used in the army of the United States.

WALKER, J. R., Salt Lake City, Utah.
Uintahite — an Asphalt — from Gilsoris Mine, near Fort Du Chene, Uintah County, Utah.

WATERBURY RUBBER CO, 49 Warren st., N. Y.
Sphincter Grip Steel Armored Hose.

WEST VIRGINIA CENTRAL RAILWAY CO., G. W. Harrison, Genl Traffic Agent, Piedmont, W. Va.
Bituminous Coal from the Eck Garden Mines (14 foot vein) and from the Davis Mine (11 foot vein).

WHITE, L. & I. J., 310 and 312 Exchange st., Buffalo, N. Y.
Edge Tools and Machine Knives.

CLASS 42.—*Products of Forest growth and Forest industries* (*).

BROOKS, HENRY, Boston, Mass.
Photographs of forest Trees.

CALIFORNIA REDWOOD LUMBER ASSOCIATION, T. Korbel, Agent, San Francisco, California.
Redwood Lumber. See Korbel.

(*) See Addenda.

CORDLEY & HAYES, 37 Barclay street, New York, N. Y.
Indurated Fibre Ware, Kitchen Utensils, etc.

DEPARTMENT OF AGRICULTURE, Washington, D. C.
Specimens of peculiarities of forest trees; Slabs of wood of special dimensions; Panels of curly and figured woods; Panels of furniture woods.

FAYERWEATHER & LADEW, New York, N. Y.
Slab of Hemlock Bark, 8 by 12 feet, framed.

FERNOW, E. B., Chief of Forestry Division, Department of Agriculture, Washington, D. C.
Maps showing the genera, species, and distribution of forest growth in North America; Wood sections and herbarium Specimens, representing the economically important timber trees of the United States; Wall-Map of Woodland area in the United States; Tree seeds; Model of tree planting Machine.

HASKIN, Samuel E., New York, N. Y.
Vulcanized Wood and Lumber.

HOUGH, Romeyn B., Lowville, N. Y.
Veneer sections, radial, tangential, and transverse, showing the Anatomy and Structure of trees; Veneer sections for Ornamental purposes.

KING, Miss Juliet, Washington, D. C., Autumn Leaves.
Design showing tints of autumn foliage in North American forests.

KORBEL, F., & BROTHERS, 27 Bryant st, San Francisco, Cal.
California Redwood Lumber and Doors.

LE LONG, B. F., California.
"Trunk (section) of oldest tree in California."

MASSACHUSETTS SOCIETY FOR THE PROMOTION OF AGRICULTURE, Boston, Mass.
"Michaux' Sylva": being 240 Colored plates representing the forest flora of the United States, as described by Andre F. Michaux, father and son.

NORTHERN PACIFIC RAILROAD CO., 35 Wall street, New York, N. Y.
Sections of the Trunks of Forest trees.

RICHMOND CEDAR WORKS, 100 and 102 Reade street, New York, N. Y.
Wooden ware: White and Red Cedar ware.

ROTHROCK, J. P., Professor of Biology, University of Pennsylvania, Philadelphia, Pa.
Bromide Enlargements of Photographs of Characteristic forest trees, from the Atlantic region.

SARGENT, CHARLES S., Director of the Arnold Arboretum, Jamaica Plain, Mass.
Sections of trees.

SEATCO MANUFACTURING CO., Seatco, Washington Territory.
Samples, useful and ornamental, of Pacific Coast woods; Samples of Exterior and Interior House Finishing in woods.

SMILLIE, THOMAS W., National Museum, Washington, D. C.
Photomicrographs of woods, in radial, transverse, and tangential sections.

SPURR, CHAS. W., COMPANY, Boston, Mass.
Veneer sections showing the Anatomy and Structure of woods, — radial, tangential, and transverse cuts.

TABER, J. W., San Francisco, Cal.
Photographs, framed (20 and 24 in.), of characteristic California trees.

TIFFANY CHEMICAL COMPANY, New York, N. Y.
Samples of Tan Bark and Tan Extracts.

ZABRISKIE, Z. L., Hattrish, N. Y.
Sections of wood for the Microscope.

CLASS 43.—*Products of Hunting. Products of Fisheries. Apparatus and Instruments for Fishing, and for Gathering Fruits of Natural Growth* (*).

JACKSON, ARTHUR C., Sanford, Florida.
Collective Exhibit of Raw and Manufactured Products to illustrate the resources and attractiveness of the State of Florida.

NYE, WM., New Bedford, Mass., Versepuy & André, Agents, 16 rue de Paradis, Paris.
Oils.

TIFFANY & CO., Union Square, New York, N. Y.
Pearls with the various species of shells in which they are found in the brooks, rivers, and on the coasts of North America.

CLASS 44.—*Agricultural Products not used for food.*

ADAMS & SONS, 156 Sands street, Brooklyn. N. Y.
Adams' Tutti Frutti Chewing Gum.

(*) See Addenda.

ALEXANDER DRUG & SEED CO., Augusta, Ga.
Samples of Cotton seed.

ALLEN & GINTER, Richmond, Va.
Cigarettes, Smoking Tobacco, and specimens of Leaf Tobacco.

ARMISTEAD, L. L., Lynchburg, Va.
Smoking Tobacco, " Occidental " and " Highlander ". Tobacco leaves from Virginia.

BINDFORD, JAMES R., Duck Hill, Mississippi.
Samples of Cotton Seed, Oil meal and Oil cake.

BOYCE, S. S., 280 Broadway, New York.
Hemp and Flax illustrating the manufacture from dry fibre.

BOYCE FIBRE CO., 280 Broadway, New York.
Flax and Hemp treated without Chemicals.

BROWN'S, WALTER, SON & CO., 29 High st., Boston, Mass.
Series of commercially graded wools.

CLARK, WASHINGTON A., Columbia, S. C.
Bale of Sea Island Cotton, Constellation superfine.

COLLECTIVE EXHIBITION, showing the varieties of leaf tobacco, prepared under the direction of the U. S. Department of Agriculture by ALEXANDER Mc Donald, Agent, Lynchburg, Va. Contributors :

BOWMAM, N. R., Lynchburg, Virginia.
SHELBORN, SILAS, Richmond, Virginia.
WINSTON, FRANK, Tennessee.
NEAL, T. D., Richmond, Virginia.
GRIFFIN, S. M., & Co., Richmond, Virginia.
WILSON, J. J., SON & Co., Richmond, Virginia.
HARTHILL, ALEX., Louisville, Kentucky.

THORNTON, NOBLE & DAVIS, Richmond, Virginia.
VAGHN & SARVAY, Richmond, Virginia.
EDMONDSON, H. A., South Boston, Virginia.
FERRILL, P. W , Danville, Virginia.
HAAS, L. B., Hartford, Conn.
BAILEY, S. M., Amherst Co., Virginia.
NOBLIN & HULSON, South Boston, Virginia.
FLORIDA TOBACCO PRODUCING CO.
CRAWFORD, E. M., & SON.
HALL, THOMAS, New York.
MARYLAND LEAF TOBACCO ASSOCIATION.
RISQUE, J., Campbell Co., Virginia.
SCOTT, A. W., Bedford Co., Virginia.

COLLECTIVE EXHIBITION of Hay and Grasses, prepared under the direction of the U. S. Department of Agriculture by Dr. George Vasey, Botanist. Contributors:

CHARLES, C. B., Bangor, Mich.
BREWER, NIXON, Washington, D. C.
PATTERSON, Fort North, Texas.
SPETH, RICHARD, Augusta Ga.
HOGAN, H. H., Ennis, Texas.
WARREN, W. H., Augusta, Ga.
BEAL, W. J., Agricultural College, Mich.
COX, J. W., Woodville, Ga.
KERN, H. H., Bonner Springs, Kansas.
MATTOX, Dr. L. C., Homerule, Ga.
CROZIER, A. A., Ames, Iowa.
WILLIAMS & RICKERSON, New York, N. Y.
HUDSON, H. E., Hudsonville, Mich.
INGERSOLL, C. L., Fort Collins, Colorado.
ORCUTT, C. R., San Diego, Cal.
TRACEY, S. M., Agricultural College, Miss.
LIGHTFOOT, I. L., Eutaw, Ala.
MILLER, JAS. F., Gonzales, Texas.

DEPARTMENT OF AGRICULTURE, Washington, D. C.
Series of samples of Lint Cotton, Cotton seed and Vegetable fibres. Ninety specimens of American Wool in glass jars.
See also Collective Exhibition.

FREMERY, FELIX, Yorktown, Texas.
Samples of native grown Jute, Ramie and Ramie seed.

HAWKINS, W. B., Lexington, Ky.
Hemp seed, Bundle Hemp stalks, Hemp "Shive" or waste.

HINSON, W. Q., James Island, S. C.
Bale of Improved Sea Island Cotton.

JONES, J. T., Hogansville, Troup Co., Ga.
Small upright glass case showing Cotton plants as ready for pickers.

JUSTICE BATEMAN & CO., 122 South Front st., Philadelphia, Pa.
Series of Commercially graded Wools.

KELLOGG & MACDOUGALL, G. M. Bailey, Agent, Buffalo, N. Y.
Brooms and Linseed Oil Cake.

KIMBALL, WILLIAM S., & CO., Rochester, N. Y.,
Cigarettes and Fine Smoking Tobaccos.

LEITNER, H. D , Richmond, Va.
Yucca Fibre and dried leaves from which it is prepared.

LONGBRIDGE, Prof. R. H., University of South Carolina.
Forty-four varieties of Cotton grown on the Experiment Farm.

LYNCH, JAMES, 194 Church st., New York, N. Y.
Series of commercially graded wools.

MAC NAUGHTAN'S, W., SONS, 170 S. Fifth Avenue, New York.
Series of commercially graded Wools.

NEW ORLEANS COTTON EXCHANGE, New Orleans, La.
Official grades of American Cotton.

PEAVEY & CO,, Minneapolis, Minn.
Miscellaneous specimens of Flax.

PORTER & MACRAE, Memphis, Tenn.
Bale of Cotton.

ROBERTS, Dr. R. R., 433 Third st , Washington, D. C.
American Flax and Hemp prepared by the Robert's bleaching process.

SIOUX CITY LINSEED OIL WORKS, Sioux City, Iowa.
Linseed Oil, Meal and Cake.

SMITH, J. T., Heron Lake, Minn.
One Ball of Tow.

SOUTHERN COTTON OIL CO , 80 Broad street, New York.
Samples of refined Cotton seed Oil. (See class 69)

SPARKS, E. R., HEMP CO., Lexington, Ky.
Cleaned, dressed and double dressed Hemp and Tow.

SPHINCTER GRIP ARMORED HOSE CO., 25 Murray street, New York, N. Y., Matthew H. Hale, Agent, 72 B'd Strasbourg, Paris.
Armored hose.

STATISTICAL DIVISION, DEPARTMENT OF AGRICULTURE, Washington, D. C.
Series of samples of Cotton in Seed, contributed by correspondents.

STRAITON & STORM, 206 East 27th street, New York, N. Y.
Cigars and Tobacco.

STUBBS, Prof, W. C., STATE EXPERIMENT STATION, Baton Rouge, La.
Series of small samples of Cotton in seed.

TUCKER, CARTER & CO., New York City.
Kentucky Hemp and Cordage made from it.

WINFREE ADAMS & LLOYD, Lynchburg, Va.
Tobacco "Arkansas Traveller", "Mississippi Jawger" and "Adams' Fancy".

CLASS 45.—*Chemical and pharmaceutical products*(*).

ARMOUR & CO., Chicago, Ill.
Glue bone meal (hoof meal).

BELL, R. W., MANUFACTURING CO., 77-89 Washington street, Buffalo, N. Y.
Laundry Soaps and Soap Powder.

BROOKHAVEN RUBBER SHOE CO., George R. Allen, Treasurer, Setauket, Long Island, N. Y.
Rubber plants, Crude Rubbers and the American manufactured Products therefrom.

BROWN, B. F., & CO., 154-156 Commercial street, Boston, Mass.
Blackings and Dressings for Leather.

BURNHAM, DR. E. S., 390 Main street, Buffalo, N. Y.
Medicated and electric Batteries.

CAHIL, M. S., & CO., 94 Lincoln street, Boston, Mass.
Alma Polish. Liquid shoe dressing.

(*) See Addenda.

CHESEBROUGH MANUFACTURING CO., 21-24 State street, New York, N. Y..
Vaseline and its preparations.

CLARK AND WISE CO., 39 River street, Chicago, Ill.
Wise Axle Grease.

COLEMAN, A., 11 rue Bergère, Paris, France.
Heavy mineral Oils, Lard and Lard Oils, Neatsfoot Oils.

COLLINS', S., SON & COMPANY, 32 Frankfort street, New York, N. Y.
Printing Inks.

COTTON SEED OIL PRODUCT CO., 80 Beaver street, New York.
Copco Toilet Soap, Copco laundry and bath Soap. See also class 69.

CRANE, THE FREDERICK, CHEMICAL CO., Short Hills, N. J.
Varnishes, Lacquers, etc.

DEVOE, F. W., & CO., 101 and 103 Fulton street, New York, N. Y.
Railway Varnishes, Paints, Brushes, etc.

FAIRCHILD BROTHERS & FOSTER, 82 Fulton street, New York, N. Y.
Digestive Ferments, Pepsine, Extractum Pancreatis, Peptonising Tubes, Peptigenic Milk Powders.

JOHNSTON, HENRY M., 25 and 27 John st., Brooklyn, N. Y.
Prepared Dry Distemper Paints, known as "Dry Kalsomine and Fresco Paints".
Prepared Dry Distemper Paints, known as "Home Wall Colors".

LARKIN, J. D., & CO., 663 Seneca street, Buffalo, N. Y.
Laundry and general Household Soap.

Mc LEISH & CO., Buffalo, N. Y.
Glass Case of Gelatine; Products of Animal Ligaments.

PEASE, F. S., 65 and 67 Main street, Buffalo, N. Y.
Lubricating and Illuminating Oils.

QUEEN CITY CHEMICAL CO., 77 Main st., Buffalo, N. Y.
Specimens of Baking Powder.

REVERE RUBBER CO., Henry C. Morse, Treasurer. Boston, Mass.
Rubber Goods for Mechanical purposes.

RUSSIA CEMENT CO., R. Brooks, Pres't., Gloucester, Mass.
Liquid Fish Glues. Articles of manufacture representing the special industrial applications of fish glues and fish tankage.

SEABURY & JOHNSON, New York and London.
Hydronaphtol, etc.

UPTON, GEORGE, 239 Franklin street, Boston, Mass.
Gelatine, Glue, Liquid Fish Glue, Flint Paper, and Brewers' Isinglass.

VALENTINE & CO., George F. Swain, Treasurer. 245 Broadway, New York, N. Y.
Varnishes and Paints for Carriage Work.

WARD, EVERETT, 6 Harrison street, New York, N. Y.
White and Yellow Soaps (Borax), and Soap Powder.

WARNER, WILLIAM R., & CO., Philadelphia, Pa.
Soluble Coated Pills, Granules, and Parvules.
Granular effervescent Salts and pharmaceutical preparations.

WATERBURY RUBBER CO., George A. Howe, Treasurer, 49 Warren street, New York, N. Y.
Elastic tubes, hose, with steel fittings.

WETZEL, JOHN, 511/2 W. 3rd South street, Salt Lake City, Utah.
Prepared Food from Skim-milk and Medicinal Herbs.

CLASS 46.—*Chemical methods of Bleaching, Dyeing, Printing and Finishing.*

—

BANCROFT, JOHN, & BLOEDE, VICTOR G., Rockford, near Wilmington, Del.
Cotton window Hollands and Fringes.

WIGGINS', H. B., SONS, 124 Clinton place, New York, N. Y.
Fabric for Window Shades, Book Covers, etc.

CLASS 47.—*Leather and Skins.*

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BARK BROS., Philadelphia, Pa., Hippolyte Cerf, Agent, 8 rue Française, Paris.
Kid skins.

BARNET, J. S., & BROTHER, 27 Spruce street, New York, N. Y.
Finished wax Calf Skins.

BENZ, DIETSCH & BETZ, Newark, N. J.
Domestic glazed Kid, Kangaroo and Goat Leathers.

BLANCHARD BROTHERS., & LANE, Newark, N. J.
Patent Leather for Carriages.

RUSSEL, GEORGE H., Newburgh, Pa.
Samples of Leather by a new and quick process of tanning with bark or extracts.

SALOMON, R. G., Newark, N. J.
Tanned and Finished Leathers.

SHARPE, CLARKE & CO., 195 Lake street, Chicago, Ill.
Sample Sides of Finished Leather.

TIFFANY CHEMICAL COMPANY, New York, N. Y.
Preparations for Cleansing and Tanning Skins and Hides.

WALLIN LEATHER CO., Grand Rapids, Michigan.
Sole Leather.

SIXTH GROUP.

Apparatus and processes of Mechanical industries, Electricity (*).

CLASS 48.—*Apparatus and Methods of working Mines and of Metallurgy.*

—

BLAKE, THEODORE A., New Haven, Conn.
The Blake multiple Jaw Crusher for fine Crushing.

CYCLONE PULVERISER CO., 115 Broadway, New York, N. Y.
Cyclone Pulveriser.

INGERSOLL ROCK DRILL COMPANY, W. L. Saunders, Secretary, 10 Park Place, New York, N. Y.
Bar Channeler, Air Compressor, Rock Drill, Coal Cutting Machine, and Air Receiver.

PARKER, FRANCIS W., Opera House Block, Chicago.
Mining Machinery.

(*) See Addenda.

CLASS 49.—*Apparatus and Methods of farming and forestry.*

—

ALLEN, S. L., & CO., 127 and 129 Catharine st., Philadelphia, Pa.
Agricultural Implements, Seed Drills, Wheel Hoes, Cultivators, and Plows.

ARMOUR & CO., Chicago, Ill.
Fertilizers: Ammoniate, dried bood, cattle tankage. hog tankage.

BATCHELLER & SONS' CO., Wallingsford, Vt.
Hay and Manure Forks.

BENSON, EGBERT, Raritan, N. J.
Hudson riding Cultivator.

BRADLEY & CO., Syracuse, N. Y.
Bradley Mowers and Bradley Reaper.

CHADBORN & COLDWELL MANUFACTURING CO., Thomas Coldwell, President, Newburgh, N. Y.
Lawn mowers.

DEPARTMENT OF AGRICULTURE, Washington, D. C., D. E. Salmon, Chief of Bureau of Animal Industry.
Photographs illustrating types of Animals in the United States and methods of raising, shipping and slaughtering animals.

DEPARTMENT OF AGRICULTURE, Washington, D. C., Dr. George Vasey, Botanist.
Photographs of Farming Implements. Samples of Ensilage.

DOUGLAS, W. & B., Middletown, Conn.
Pumps, Garden Engines, and Hydraulic Rams for Garden, Farm, and general Agricultural and Horticultural use.

FERNOW, E. D., Washington, D. C.
Tree-planting machine.

GLOVER & CHANDLER, Chicago, Ill.
Model of Steam Logger. A machine making its own ice-road in the woods, and hauling a train of sleighs loaded with logs at the same time.

GOULD'S MANUFACTURING CO., C. L. Zacharie, Manager, Seneca Falls, N. Y.
Pumps, Engines, Rams, and Hydraulic machines adapted for manual, animal, wind, water, steam, oil, gas, and electric power.

HIGGANUM MANUFACTURING CORPORATION, Higganum, Conn.
Agricultural Machinery.

HUMBOLDT LUMBER MANUFACTURERS' ASSOCIATION, Eureka, Cal.
Portfolio containing 25 photographic views, illustrating methods of lumbering and forest scenes in the California Redwoods.

HURTUBISE, ALEXANDER, East Saginaw, Mich.
Model of a logging Sleigh.

JOHNSTON, SAMUEL, & CO., Brockfort, N. Y.
Platform Binder, Combined Mower and Reaper, Self-Raking Reaper, and Mower.

JOHNSTON HARVESTER CO., Batavia, N. Y.
Harvesting Machinery : Mowers and Reapers.

LLOYD & SUPPLEE HARDWARE CO., 503 Market st., Philadelphia, Pa.
" Pennsylvania " Lawn Mowers.

LUTCHER AND MOORE, Orange, Texas.
Yellow pine frame, with photographic views, illustrating methods of lumbering in the Southern pineries.

MAST, FOOS & CO., 21st st., Springfield, Ohio.
Buckeye Lawn Mowers.

Mc CORMICK HARVESTING MACHINE CO., Chicago, Ill.
Combined Steel Grain Harvester and Self Twine Binding machine with Bundle Carrier attached, and Transportation Truck for Same. Self Rake Reaping machine and two Steel Mowing machines.

MEXICAN PHOSPHATE AND SULPHUR CO., A. Halsey, Secretary, 328 Montgomery st., San Francisco, Cal.
Superphosphate Fertilizers from genuine Guano or phosphates.

MOHR, CHARLES, Mobile, Alabama.
Tools used in Turpentine Orcharding in the South.

MORLEY BROS., East Saginaw, Mich.
Tools used in logging.

OSBORNE, D. M., & CO., Auburn, N. Y.
Harvesting Machinery: Binder Reaper and Mowers.

PLANO MANUFACTURING CO., 81 and 83 West Monroe st., Chicago, Ill.
Harvester Binder and Mower.

THAYER, J. E., San Francisco, Cal.
One Redwood frame containing 32 photographic views, illustrating methods of lumbering in California Redwoods.

WARD, HENRY, Allen's station, Ga.
Home made Horse Collar from corn husks.

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PHILLIPS, C. C., 20 South Broad street, Philadelphia, Pa.
Portable Grinding Burr Mills.

REID, A. H., Philadelphia, Pa.
Dairy appliances : Churn, Butter workers, Butter Shipping Box, Butter Printers.

RICHMOND CEDAR WORKS, 100 and 102 Reade st., New York.
"Electric" Barrel Churn.

SMITH, GEO. T., MIDDLINGS PURIFIER CO., Jackson, Mich.
Flour Dressers, Middlings Purifier, Dust Collector attached to Purifier.

CLASS 51.—*Apparatus used in Chemistry, Pharmacy and Tanning.*

FRANK, F. A., & CO., 316 E. 82nd st., New York.
Machine for the preparation of powders, pommades and extracts.

CLASS 52.—*Machines and Apparatus of general Mechanics.*

AMERICAN ELEVATOR CO., New York and Paris.
Hydraulic Lift, used in the "Terrestrial Globe", Champ de Mars.

AMERICAN LEATHER LINK BELT COMPANY, 72 Cliff street, New York, N. Y.
Leather Link Belting.

ARMINGTON & SIMS, Providence, R. I.
One 75 horse-power high speed steam engine operating dynamos in Thompson & Houston exhibit.

BINGHAMPTON HYDRAULIC POWER CO., A. Ward Ford, Secretary, Binghampton, N. Y.
Hydraulic Motor : "Water Motor".

BLAKE, JOHN HENRY, 29 Liberty st., Batavia, N. Y.
Marine Rotary Engine for Launch Service.

BROWN, C. H., & CO., Fitchburg, Mass.
Steam engine, 100 horse-power.

COLT'S PATENT FIRE ARMS MANUFACTURING CO., Hartford, Conn.
Baxter Engine and Boiler. Disc Engine.

CROSBY STEAM GAGE & VALVE CO., Boston, Mass.
Steam Gages, Valves, and Indicators.

DODGE MANUFACTURING COMPANY, Mishawaka, Ind.
Wooden, belt and rope pulleys.

DOUGLAS, W. & B., Middletown, Conn.
Pumps, Hydraulic Rams and other Hydraulic Machines for general use.

EMERSON & MIDGLEY, Beaver Falls, Pa., George Mason and John Lynch, European Managers, London and Paris.
Steel Wire Belting and Hose.

GOULD'S MANUF. CO., Seneca Falls, N. Y.
Pumps, Engines, Rams, and Hydraulic Machinery, adapted for manual, animal, wind, water, steam, oil, gas, and electric power.

HORTON, E., & SON CO., Windsor Locks, Conn.
Lathe chucks. Car wheel chucks, Milling machine chucks. Brass finishers chucks. Drill press chucks.

MARIS MACHINE CO., 146 Broad street, Philadelphia, Pa.
Portable Hoists.

MASON, VOLNEY W., & CO., Providence, R. I.
Elevator and hoisting machinery, Friction pulleys and clutches for coupling, shafting and gears.

MAST, FOOS & CO., Springfield, Ohio.
Iron Turbine Wind Engine, Buckeye Force Pump.

NORTHROP MANUFACTURING COMPANY, 117 North Front street, Camden, N. J.
Boiler for steam tricycles.

OTIS BROTHERS & CO., W. FRANK HALL, Vice-President, 38 Park Row, New York, N. Y.
Gas and pumping Engines, Hydraulic lifts in the Eiffel Tower.

PICKERING GOVERNOR CO., Portland, Conn.
Pickering improved Spring Governor for Steam Engines.

REED, J. VAN D., 13 Barclay st., New York, N. Y.
Circular Looms. Hydraulic circular woven Hose. Machine belting.

RIFES HYDRAULIC ENGINE MANUFACTURING CO., R. H. Woodrum, Attorney, Roanoke City, Va.
Hydraulic Engine : " Ram ".

SCHIEREN, CHARLES A., & CO., 47 Ferry st., New York, N. Y.
Electric and perforated leather belting.

SILVER & DEMING MANUFACTURING COMPANY, Salem, Ohio.
Pumps and Pumping Machinery. Hydraulic Rams.

STRAIGHT LINE ENGINE CO., Syracuse, N. Y.
One 100 horse-power and One 35 horse-power automatic high speed Steam Engine.

THOMSON, JOHN, 143 Nassau st., New York, N. Y.
Water Meters and special model to demonstrate operation.

UNDERWOOD MANUFACTURING CO., Tolland, Conn.
Patent Cotton Leather Belting.

UNITED STATES METALLIC PACKING CO., Philadelphia, Pa.
Metallic Packings, Oil Cups, and other patented inventions applicable to Locomotive, Marine, Stationary, Hydraulic and other Engines. Stationary Engine with metallic packings.

WALSH, JAMES, JR., 327 North 8th street, Philadelphia, Pa.
2 Steam Valves; 1 Hydrant Cock; and drawings of Brake and Grip.

WESTINGHOUSE MACHINE CO., Pittsburgh, Pa.
Westinghouse Automatic Engine, 25 h. p., "Standard", furnishing power to dynamo.

WILSON & ROAKE, 261 Front st., New York, N. Y.
Automatic gravity purifying trap and Skimmer for Steam boilers.

WORTHINGTON PUMPING ENGINE CO., New York, N. Y., J. H. Harris, General Manager.

Worthington High-Duty Pumping Engine, capacity 6,000,000 gallons, at work on the Quai d'Orsay for the water supply of Exposition.

Worthington Compound Pressure Pumps, with independent condensers, at work at foot of the Eiffel Tower of 300 mètres lifting water to the top platform.

Worthington boiler feed Pumps are used with the boilers of the Collet Co. in the Tower of 300 mètres and in the Section of the Argentine Republic, with boilers of the Babcock and Wilcox Co. in the Pumping Station of the Quai d'Orsay, and in the Palace of Machines, and also in the various installations of the Electric Syndicate.

CLASS 53.—*Machine tools.*

AMERICAN SCREW CO., Providence, R. I.
Machines for making Rolled and Swaged Wood Screws.

AMERICAN TOOL AND MACHINE CO., Boston, Mass,
Fox Screw cutting Lathe for brass finishers' use.

BLISS, E. W., & CO., Brooklyn, N. Y.
Drop Hammers, Presses, Dies, and Machinery for working sheet metals.

BROWN & SHARPE MANUFACTURING CO., Providence, R. I.
Universal Milling Machines, Vertical Chucking Machines, Grinding Machines, Cutter and Reamer Grinders, Automatic Gear Cutters, Screw Machines, Milling Attachments, Sample Castings, etc., etc.

CURTIS & CURTIS, Bridgeport, Conn.
Forbes Patent Die Stock, Cutting and Threading Machines.

HIGLEY SAWING & DRILLING MACHINE CO., 45 Broadway, New York, N. Y.
Machines for Sawing and Drilling Iron and Steel of all descriptions.

HOGGSON & PETTIS MANUF. CO., 64 Court st., New Haven, Conn.
Sweetland lathe Chuck

HORTON, & SON COMPANY, The E., Windsor Locks, Conn.
Chucks.

MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass.
Twist Drills for Machinists; Machine Bits; Solid, Shell and Taper Reamers; Milling Cutters; Lathe Chucks, etc.

SELLERS, WILLIAM, & CO. (Incorporated), 1600 Hamilton st., Philadelphia, Pa.
Iron Planing Machines; Tool grinding and shaping Machines. Drill grinding and pointing Machine. Self-adjusting injector of 1876, and the self-acting injector of 1887.

SILVER & DEMING MANUFACTURING CO., Salem, Ohio.
Hub Boring Machines for Carriage Makers. Spoke Tenoning Machines.

SIMONDS, GEORGE FREDERIC, Fitchburg, Mass.
Metal Rolling Machine.

STARRETT, L. S., Athol, Mass.
Mechanics' Tools.

STERNBERGH, J. H., & SON, Third street and Buttonwood street, Reading, Pa.
Bolt Milling and Screw Threading Machine and Screw Drivers.

STILES & PARKER PRESS CO., Middletown, Conn.
Drop Hammers, Presses, Dies, and Machinery for Working Sheet Metal.

TANITE COMPANY, Stroudsburg, Pa., Burton fils, Agent, 62 Rue Charlot, Paris, France.
Tanite Emery Wheels and Tanite Emery Machines.

TOWER & LYON, 95 Chambers street, New York, N. Y.
Stephens' Patent Vises and Attachments.

TRUMP BROTHERS MACHINE CO., Wilmington, Delaware.
Scroll Saws, Lathe Centre Grinders, and Chucks.

WARNER & SWASEY, Cleveland, Ohio.
Brass Working Machinery: Turret Lathes, Spindle Valve Milling Machines, etc.

WHITON, THE D. E., MACHINE CO., New London, Conn.
Lathe Chucks, Gear-cutting Machine. Centering Machine. Expanding Reamers.

CLASS 54.—*Appliances and Methods of Spinning and Rope-Making.*

NATIONAL CORDAGE CO., THE, 113 Wall st., New York, N. Y.
Cordage and Rope.

TUCKER & CARTER CORDAGE CO., 98 Pine street, New York.
Double dressed Kentucky Hemp and four samples of Rope.

WALKER, M. PHILIP, DEPARTMENT OF AGRICULTURE, Washington, D. C.
Modification of Sewell's System of Automatic Spinning for Silk.

CLASS 55.—*Apparatus and Methods of weaving.*

FRIEDENWALD BROTHERS, Baltimore, Md.
Embroidering and Lace Cutting Machines.

INTERNATIONAL WOOL IMPROVING COMPANY, Boston, Mass.
Hodgson Flush : Flume System for Scouring and Dyeing Wool ; also model of same.

CLASS 56.—*Appliances and Methods of sewing and making articles of Clothing* (*).

BAILEY, R. S., Silver Creek, N. Y.
Apparatus for Cutting out Clothing.

CAMPBELL SEWING MACHINE CO., Pawtucket, R. I.
Campbell Lock-stitch Sewing Machines. Lock.

DAVIS SEWING MACHINE CO., Watertown, N. Y.
Sewing Machine for Family and Manufacturing use,

(*) See Addenda.

Attachments and samples of Sewing Machine work.

INTERNATIONAL BUTTON HOLE SEWING MACHINE CO , 458 Harrison Ave., Boston, Mass. A. Johnson, Agent, 60 rue de l'Aqueduc, Paris.
Reece Machines for making Clothing, Boots, and Shoes.

NEW HOME SEWING MACHINE CO., Allen Schenck, President, 28 Union Square, New York, N. Y.
15 Sewing Machines and samples of work.

PAINE SHOE LASTING MACHINE CO., 109 North Avenue, Rochester, N. Y.
Machine for Lasting Boots and Shoes.

SINGER SEWING MACHINE CO., 34 Unior Square, New York, N. Y.
46 Sewing Machines and samples of work.

STANDARD SEWING MACHINE CO., Atlantic Ave , Boston, Mass.
Standard Button Sewing Machine.

TAPLEY MACHINE CO., 234 Devonshire st., Boston, Mass.
Tapley Heel Burnisher.

TILLINGHAST SUPPLY CO., Providence, R. I., Emile Nyssens, 15 Ave. Trocadéro, Paris, Agent.
Sewing Machine.

WHEELER & WILSON MANUFACTURING CO., N. W. Wheeler, President, Bridgeport, Conn.
Sewing Machines for general and special purposes, including Button-Hole Sewing Machine; with Attachments and Appliance.

WHITE SEWING MACHINE CO., Thomas N. White, President, Cleveland, Ohio.
Sewing Machines.

CLASS 57.—*Appliances and Methods of Manufacture of Articles for Furniture and Dwellings.*

CASEY MACHINE SUPPLY CO., 113 Lewis st., New York, N. Y.
Nailing machine for making cigar boxes and packing boxes (self-feeding).

CHAPMAN, LEWIS M., 82 W. 80th st., New York, N. Y.
Process of Manufacture in Glass Spinning; Modeling and Engraving.

FAY, J. A., & CO., Cincinnati, Ohio.
Machinery for the economic conversion of lumber, for Government Navy Yards and Arsenals, Railroad Car & Locomotive Shops, Ship, Bridge, House, Carriage and Furniture construction, and every other purpose for which lumber may be fabricated; a collection of 30 machines for Planing, Tongueing, Grooving, Surfacing, Thicknessing, Sawing, Re-splitting, Molding, Mortising, Boring, Tenoning, Dovetailing, and Polishing.

GAYLORD, E. E., Bridgeport, Conn.
Miter Cutter, Miter Saw, and Miter Plane.

GREGG, WM. L., 423 Walnut st., Philadelphia, Pa.
Small working model of Brick-making Machine and apparatus for Brick-making. Front and ornamental Brick.

MAC COY, JAMES S., 431 11th avenue, New York, N. Y.
A Pneumatic Tool in its various applications.

REID, A. H., 30th and Market sts., Philadelphia, Pa.
"Lightning" Braces for boring holes, driving screws, etc.

SCHWAB, ERNEST, 89 and 91 W. Harrison st., Chicago, Ill.
Woodworking Machinery.

CLASS 58.—*Appliances and Methods of Paper Manufacture, Coloring and Printing.*

—

BORIE MAILING MACHINE CO., 520 Washington st., San Francisco, Cal.
Mailing Machine (Hand power) for affixing postage stamps and addressing slips.

CAMPBELL PRINTING PRESS MANUFACTURING CO., John T. Hawkins, President, 160 William st., New York, N. Y.
Cylinder printing Machines.

CASEY MACHINE & SUPPLY CO., J. Casey, President, 183 Lewis st., New York, N. Y.
Double Job Press, Belt Shifter and Brake.

DOUGLAS & WILSON, Cincinnati, Ohio.
Merchants' Roll-paper Printer and Cutter.

ELECTRINE COMPANY, St. Paul, Minn.. M. P. Mc. Coy, Agent, 10 Farringdon Road, London.
Inkoleum, for reducing and refining ink to prevent offset, etc.

GOLDING & CO., 177 and 179 Fort Hill Square, Boston, Mass.
Printing presses.

HUTCHINS, STILSON, FOR THE MERGENTHALER PRINTING CO., & THE AMERICAN PRESS CO., Washington, D. C.
The Graphophone and phonograph, in connection with the Mergenthaler Linotype matrix setting and type casting machine and the Henkle-Fowler Press.

KLAUDER & BROTHERS, American st. and Lehigh av., Philadelphia, Pa.
Skein Yarn Dyeing Machine.

LIBERTY MACHINE WORKS, 54 Frankfort st., New York, N. Y.
Liberty Printing Presses.

MACKELLAR, SMITHS & JORDAN CO., Philadelphia, Pa.
Printing Type and Combination Borders.

Mc COY, M. P., 7 Water Lane, Ludgate Circus, London, England.
Model American Printing Office showing American Type, Cases, Tools, Stands, Cabinets, Paper Cutting Machines, Milling Machines, and 6 American Platen Printing Machines.

MILLER, EDWARD L., Philadelphia, Pa.
Paragon Paper and Card Cutting Machine.

REILLY, D J., & CO., 324 and 326 Pearl street, New York, N. Y.
Printers' Rollers.

THOMSON, JOHN, 143 Nassau st., New York, N. Y.
Job Printing Presses, Embossing Press, and Paper Box Cutting and Creasing Press.

THORNE TYPE-SETTING MACHINE CO., R. W. Nelson, President, Hartford, Conn.
Type-Setting and Distributing Machine.

CLASS 59.—*Machines, Instruments and Methods used in various occupations* (*).

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AMERICAN WRITING MACHINE CO., Hartford, Conn., and 21 rue Martel, Paris, France.
The Calligraph Writing Machine and Accessories.

AUTOMATIC MACHINE COMPANY, 45 Broadway, New York, N. Y.
Automatic Machines.

BAILEY WRINGING MACHINE CO., Woonsocket, R. I.
Clothes Wringers.

BENTZEN, CHARLES A., 240 West 12th st., New York, N. Y.
Washing Machines.

CLEGG, CHARLES A., 127 Broadway, New York, N. Y.
The Thompson Duplicating and Copying Machine for making duplicate copies of manuscript or the writing on hard or tissue paper.

CLOUGH & MACONNEL, 132 Nassau st., New York, N. Y.
Wire Cork-Screw Machine and full line of Cloughs' Proprietary Cork-Screws.

(*) Type writers are exhibited in the Industrial Section.

COLUMBIA TYPE-WRITER MANUFACTURING CO., 129 and 131 Crosby st., New York, N. Y.
Bar-Lock Type-Writer and Columbia Type-Writer.

DOLPH, THE A. M., CO., 40 Cortlandt st., New York, N. Y.
Laundry Machines.

EATON, J. H , Monroe, Wis.
The New Victoria Plaiter, an appliance for making dress trimming.

HAMMOND TYPE-WRITER COMPANY, 77 Nassau st., New York, N. Y.
Hammond Type-Writers and Drop Cabinets for Type-Writers.

HOGGSON & PETTIS MANUF. CO., 64 Court st., New Haven, Conn.
Morris Type-Writer. Lowdon Bank Punch.

LAMSON CONSOLIDATED STORE SERVICE COMPANY OF BOSTON, 15 rue Paul-Lelong, Paris.
Key-Cash Registering Machine with Cash Drawer attached. Check and Adding Machines of three different styles for controlling cash receipts.

LEINBACH, FELIX W., Bethlehem, Pa.
Paper Bag Machines.

MYERS, FREDERICK, New York, N. Y., and Liverpool, England, Henry P. Koche, 49 rue de la Chaussée d'Antin.
Type-Writing Machines.

NATIONAL CASH REGISTER CO., John William Allison, Agent, 95 Strand, London, England.
National Cash Register Tills.

PARAGON CIGAR MACHINE COMPANY, Samuel Kraus, President, 710 E. 14th st., New York, N. Y.
Cigar Rolling Machine, Cigar cutting-off Machine, and Cigar Wrapper Cutter Press.

SMITH, JOHN E., & SONS, 50 Broadway, Buffalo, N. Y.
Meat Cutters, Chopper, and Sausage stuffing Machine.

VIZET, V., New Rochelle, N. Y.
Washing Machine attached to tub.

WILLIAMS, THE JOHN R., COMPANY, 102 Chambers street, New York, N. Y.
Cigar Bunching Machine, Suction Rolling Table, and Stripping Machine.

WORLD TYPE-WRITER COMPANY, New York, N. Y.
World Type-Writer.

WYCKOFF, SEAMANS & BENEDICT, Wm. C. Hallett, Agent, 327 Broadway, New York, N. Y.
Remington Standard Type-Writer and accessories.

CLASS 60.—*Carriage-making, Wheelwrights' Work, Harness-making and Saddlery.*

CHAPIN MANUFACTURING CO., Meriden, Conn.
Plumes and Bells for Sleighs.

DANN BROTHERS & COMPANY, 80 to 86 Franklin street, New Haven, Conn.
Bent Wood and Carriage Wood Work.

HEALEY & COMPANY, Broadway, near 42nd street, New York, N. Y.
Fine Carriages.

KIMBALL, C. P., & CO., Wabash avenue and Harrison street, Chicago, Ill.
Brougham, Mail Phaeton, Speeding wagon, and Trotting Sleigh.

MARTIN & MARTIN, 574 Fifth avenue, New York, N. Y.
Saddles and Harness.

SHEPARD, H. G., & SONS, New Haven, Conn.
Bent Carriage Wood Work.

CLASS 61.—*Railroad Appliances* (*).

AMERICAN ROAD MACHINE CO., Kennett Square, Pa.
American Road machine.

BISHOP, MAJOR D. E., 822 Broadway, New York, N. Y.
Combination Rail Road Joint.

BOYDEN POWER BRAKE CO., Baltimore, Md.
Model Railroad Track and Train equipped with Boyden Power Brake.

FISHER, CLARK, Trenton, N. J.
The Fisher Rail Joint mounted, as in practice, on oak ties.

FLEMING MANUFACTURING CO., Fort Wayne, Ind.
The Leader Road Machine.

(*) See Live Stock Express Co., p. 213

HOFFMIER, A. K., Lancaster, Pa.
Drawings showing an improved system of railway track laying.

INLOES, WILLIAM H., Asheville, N. C.
Model of Patent Railway Turn Table Lock.

LAIRD, B. F., Covington, Ky.
Two Cars upon Tressels showing the working of his Automatic car coupling.

MERCHANTS DESPATCH TRANSPORTATION CO., John C. Noyes, General Manager, 335 Broadway, New York, N. Y.
Wickes Patent Refrigerator Car.

NEW YORK COMMERCIAL CO., LIMITED, 140 Pearl street, New York, N. Y.
Equipments and Supplies for the building and operating of Railroads.

PECKHAM STREET CAR WHEEL & AXLE COMPANY, George L. Fowler, Secretary, 239 Broadway, New York, N. Y.
Street Car Wheels, Steel Tired Paper Car Wheels, Steel Tired Car Wheels, and Car Axles.

PENNSYLVANIA RAILROAD COMPANY, Altoona, Pa.
Passenger Car Truck, Freight Car Truck, Section of Passenger Car, Section of Box Car, Section of Gondola Car, Cast Iron Wheels on Axle, Worn-out Wheel (Cast Iron), Cast Iron Wheel Spoiled in Casting, Broken Wheel showing Chill, etc , and other small articles. Section of Standard Rail and Rail joint. Album of Specifications for materials, etc. Album of Photographs of Cars, Locomotives, etc., etc.

PORTER, H. K., & CO., Pittsburgh, Pa.
Light Back-Truck Locomotive.

RAILWAY NEWS CO., 32 Cortlandt street, New York, N. Y.
Railroad Appliances and Models including Models of New Engines, Bridges, Viaducts and Railroad Engineering Works.

SPRAGUE ELECTRIC RAILWAY AND MOTOR CO., 16 and 18 Broad street, New York, N. Y.
Electric Railway Truck mounted with two 15 horse-power motors.

STEVENSON, EDWARD O., Mingo, Ohio.
Railway Highway Crossing Gate (operated by approaching train), Car-Coupler, Car Brake, Anti-Derailing Switch, frog and crossing combined.

THOMSON - HOUSTON INTERNATIONAL ELECTRIC CO., Boston, Mass.
Electric Railway Appliances; Motors; Trucks; Car complete.

TUBULAR BARROW MACHINE CO., 169 to 175 14th st., Jersey City, N. Y.
Tubular Steel Wheelbarrows for Dirt, Coal, Ore and Mills; Steel Dumping Tub for Coal or Ore.

WARREN, ANDREW, St. Louis, Missouri.
Lever Lifting and Lowering Jacks for railroad work.

CLASS 62.—*Electricity.*

AMERICAN BELL TELEPHONE CO., Boston, Mass.
Telephones and Telephone Appliances.

AMERICAN GRAPHOPHONE CO., Washington, D. C.
Graphophones.

BURNHAM, E. S., 390 Main st., Buffalo, N. Y.
Electrical batteries employed for medical purposes.

"C. AND C." ELECTRIC MOTOR CO., 402 Greenwich st., New-York, N. Y., Arthur Shippey, Agent.
Electric Motor and Ventilating Fans.

COBB VULCANITE WIRE CO., Wilmington, Del.
Flexible Vulcanized Rubber. Insulated Wires for Electric Light, Telegraph, and all Electrical purposes, especially underground Wires.

COLNÉ, CHARLES, 15 Broad st., New York, N. Y.
Continuous pressure electrical batteries.

COMMERCIAL CABLE CO., Ave. de l'Opéra, Paris.
System of telegraph apparatus.

CONNOLLY BROTHERS, T. A., A. A. & Jos. B., 927 F. st., Washington, D. C.
Telegraphic apparatus.

CONSOLIDATED TELEGRAPH & ELECTRICAL SUBWAY CO., Leonard F. Beckwith, Chief Engineer, 18 Courtlandt st., New York, N. Y.
Maps, Drawings, Plans, and Samples of construction and materials illustrative of the construction and operating of the Electrical Subways.

DENISON, S. P., & MAN, W. G., 7 Beekman st., New York, N. Y.
The Denison Auto-Telegraph System: two machines, wires, batteries, etc.

DION, CHARLES, 7 rue de l'Arcade, Paris, France.
Machine for making metallic magnetic spires to replace wires in dynamo machines, Ruhmkorff's bobbins and electro-magnets. An improved dynamo and magneto machine. Electric lamps. A syphon to empty at one time several cups of a battery or Electric pile.

DION, CHARLES, & DESSOULES, LOUIS-ANTOINE, 7 rue de l'Arcade & 8 rue des Moulins, Paris, France.
Primary Battery with improved liquid which does not polarize.

EDISON, THOMAS A., Llewellyn Park, N. J.
General Electrical and other exhibits of the inventions of Thomas A. Edison.

ELECTRICAL COLLECTIVE EXHIBITION BY U. S. COMMISSION.
Publications and Models pertaining to Electricity.

ELECTRICAL SUPPLY CO., 171 Randolph st., Chicago, Ill.
Special Electrical appliances.

ELECTRON MANUFACTURING CO., THE, Brooklyn, N. Y.
Electro Motors.

GARDINER AUXILIARY FIRE ALARM COMPANY, 280 Broadway, New York.
Electric Fire Alarm System consisting of 6 Fire Alarm Boxes and 1 combined Gong and Indicator.

GRAY, ELISHA, Highland Park, Ill.
Telephones; Harmonic Telegraph; Telautograph; Speaking Telephones; Historical Apparatus.

HANSON, VAN WINKLE, & CO., Newark, N.J.
Photographs illustrating Apparatus and Methods of Electro-Metallurgy of Nickel.

HEISLER ELECTRIC LIGHT CO., A Graner, Secretary, 809 South 7th street, St. Louis, Mo.
Heisler Electric Light Dynamo with Automatic Regulator with requisite Lamps.

JOHNSTON, W. J., CO., LIMITED, 168 to 177 Potter Building, New York, N. Y.
Books concerning Electricity published in the United States.

PATTEN, Francis J., Lieutenant U. S. A., Care of the Adjutant-General U. S. Army, Washington. D. C.
New System of Synchronous Multiplex Telegraph comprising two machines for Synchronous Movement, being Electric Motors weighing about 25 lbs each; 24 sets Morse Operators' instruments.

MUNSON LIGHTNING CONDUCTOR CO., Indianapolis, Ind.
Lightning Conductors.

OKONITE COMPANY, W. L. Candee, Treas., New York, N. Y.
Specimens of insulated wires and cables.

PAISTE, H. T,, Philadelphia, Pa.
Incandescent Electric Snap Switches. Fletcher's Sleet-proof Pulleys, Fletcher's Gun-wire Holders.

SILLIMAN, Robert, Troy., N. Y.
Specimens of insulated cable for street and house use.

SOLAR CARBON & MANUFACTURING CO., 69 Fifth Avenue, Pittsburgh, Pa.
Battery Carbons and Electric Light Carbons.

SPERRY ELECTRIC COMPANY, Chicago, Ill.
Electric Light Plant: one dynamo, regulator, line, wires, switches, lamps, etc.

THOMSON, ELIHU, Lynn., Mass.
Various Inventions pertaining to Electricity.

THOMSON ELECTRIC WELDING CO., 70 Kilby street, Boston, Mass.
Electric Welding Apparatus.

THOMSON-HOUSTON INTERNATIONAL ELECTRIC CO., 620 Atlantic Avenue, Boston, Mass.
Electric Generators, Electric Motors, and Electric Appliances.

UNITED STATES NAVAL OBSERVATORY, Capt. R. L. Phythian, Supt., Washington, D. C.
Electrical distribution of Time; Gardner's System by correcting and controlling clocks, dropping balls and other signals (see also cl. 15).

WESTERN ELECTRIC CO., M. Barton, President, Chicago, Ill.
Electrical Apparatus.

WOODWARD ELECTRIC CO., Detroit, Michigan, Arthur Shippey, Agent.
Storage Battery, and Lamps.

WRITING TELEGRAPH CO., 57 Murray street, New York, N. Y.
Writing Telegraph Instruments.

CLASS 63.—*Appliances and Methods of Civil Engineering, of Public Works and Architecture.*

—

AMERICAN BIT BRACE CO., 124 Washington st., Buffalo, N. Y.
Bit Braces and other mechanical tools.

BUFFALO INTERNATIONAL FAIR ASSOCIATION, 47 Chapin Block, Buffalo, N. Y.
Plans of Exposition Building

CORBIN, P. & F., New Britain, Conn.
Locks and Builders' Hardware. Post Office System.

EMPIRE GRANITE CO., 625 E. 15th st., New York, N. Y.
Artificial Granite laundry tubs.

GESNER, JOHN F., 15 State st., New York, N. Y.
Specimens of Artificial Stone and Wood.

HAYES, GEORGE, 71 Eighth Avenue, New York, N. Y.
Metallic Fire Proof Lathing, Furring, etc., with Machinery.

HERRING & CO., 251 Broadway, New York, N. Y.
Burglar and Fire-proof Safes.

INTERNATIONAL GAS & FUEL CO., Chicago, Ill.
System of Fluid Fuel Distribution, as applied to furnaces, dry kilns, etc.

KENSETT, JAMES W., 272 Federal st., Boston. Mass.
Metallic Lathing and Foundation therefore: for the prevention of the spread of fire.

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[illegible] Electricity

[illegible] VELING CO., 70 [illegible] Motor Mfg.
[illegible] Aromatics

[illegible] NAL
[illegible] Boston.

[illegible] on Electric Motors and Electric [illegible]

[illegible] Washington.
[illegible] Time Gunner's System [illegible] and controlling clocks, [illegible] tails [illegible] see also [illegible]

[illegible] TRIC CO., M. Barton, Pres- [illegible] Aromatics

[illegible] ELECTRIC CO., Detroit, Mich- [illegible] Supply. Agent: [illegible] and Lamps.

[illegible] GRAPH CO., 5 Murray street, [illegible] Instruments.

PARK UNITED EXHIBIT [illegible]

[illegible] Department and Annex of the Exhibit [illegible] State of Empire York and Exposition.

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[illegible]RICAN [illegible] Washington [illegible] Buffalo, N. Y.
Braces and other mechanical tools

[illegible]FALO INTE[illegible]
[illegible]ION, 47 Cha[illegible] Buffalo [illegible]
[illegible]ans of Exposition [illegible]

[illegible]RBIN, P. & F., New Britain, Conn.
[illegible]ocks and Builders' Hardware. [illegible]

[illegible]PIRE GRANITE CO., [illegible] New York, N. Y.
Artificial Granite laundry tubs.

[illegible]ESNER, JOHN F., 15 State st., New York [illegible]
Specimens of Artificial Stone and Wood.

HAYES, GEORGE, 71 Eighth Avenue, New York [illegible]
Metallic Fire Proof Lathing, Furnaces [illegible]
Machinery.

HERRING & CO., 251 Broadway, New York [illegible]
Burglar and Fire-proof Safes.

INTERNATIONAL GAS & [illegible] Chicago, Ill.
System of Fluid Fuel Distribution [illegible] furnaces, dry kilns, etc.

KENSETT, JAMES W., [illegible] Boston, Mass.
Metallic Lathing and Foundation [illegible] prevention of the spread of fire [illegible]

KOCH, A. B., COMPANY, Peoria, Ill.
Brackets for Shelves in Cast Iron, fancy patterns.

LEHIGH VALLEY CREOSOTING COMPANY. Perth Amboy, N. J., Walter G. Berg, Superintendent.
Photograph of Creosoting works.
Catalogue of small photographs of works with description of same; also photograph of tests with description.

LINDENTHAL, GUSTAV., 36 Lewis Block, Pittsburgh, Pa.
Perspective drawing of the proposed North River Bridge, at New York City, with middle span 2850 ft. long, for six railroad tracks.

MILLER LOCK COMPANY, M. Jackson, Managing Director, Frankford, Philadelphia, Pa.
Samples of boxes, Keyless Locks, and padlocks.

SECO, HENRI, 31 Nassau st., New York, N. Y.
Patent improved Lifting Jacks for vehicles.

STANDARD PAINT CO., 59 Maiden Lane, New York, N. Y.
" P and B " Electrical Compounds and Paints; Sheathing and Waterproof Lining Papers; Roofing and Covering.

STANLEY RULE & LEVEL CO., New Britain, Conn.
Iron and Wood Bench Planes and other Tools.

TURNER, I. JACKSON, Princeton College, Princeton, N. J.
Aspirating Ventilator or Chimney Cap.

UNITED STATES PATENT CEMENT CONDUIT CO., 48 Dey st., New York, N. Y.
Sections of Continuous Conduit for wires under ground.

WILSON, JAMES GODFREY, 907 Broadway, New York, N. Y.
Rolling Blinds, Venetian Blinds, and Rolling Steel Shutters.

WITTE, JOHN G., & BROTHER, 75 Chambers street, New York, N. Y.
Door Spring and Check.

WORTHINGTON PUMPING ENGINE CO., 145 Broadway, New York.
One Worthington Compound Condensing High duty Waterworks Engine with boilers, buildings and accessories for the supply of water to the Exposition. (See Class 52.)

YALE & TOWNE MANUFACTURING COMPANY, Schuyler Merritt, General Manager, Stamford, Conn.
Specimens of hardware and locks. The Yale and Towne Post office system.

CLASS 64.—*Hygiene and Public Charities.*

WING, LEVI J., 50 Cliff st., New York, N. Y.
Disc fans and high speed engines, used for heating, ventilating, cooling, drying, removing steam, dust, smoke, gases, vapors, etc.

CLASS 65.—*Navigation and Life-saving.*

ALLEN, FREDERICK S., Cuttyhunk Island, Mass.
Model of Reversable Life-Boat.

BADIA & DUBOIS, 332 South 4th street, Philadelphia, Pa.
Automatic Life-Preserver Belts, and Model of Automatic Life Raft. Drawing showing Automatic system of inflating bags to render a vessel unsinkable.

COMMERCIAL CABLE CO., New York, N. Y.
Model of the Cable-Repairing Steamer "The Mackay-Bennett".

DASHIELL, BENJ. J., JR., 6 South st., Baltimore, Md.
Drawings of Tow Boat.

DOLLIVER, JAMES W., 5 Broad street, Boston, Mass.
Swan Bicycle Life Guard Boat.

HOLMES, EBEN, Marion, Mass.
Model of Cat Boat.

OSGOOD, N. A., Battle Creek, Mich.
Portable folding canvas boat, complete with oars, seats, and bottom board.

RAILWAY NEWS CO., 32 Courtlandt st., New York, N. Y.
Models of Long Island Sound steamer, Hudson river steamboats, ferry boats, and transfer boats. Pictures of other boats.

TEMPLE, LEWIS, 92 Union street, New Bedford, Mass.
Yacht Model, half inch scale, for a sixty-feet Centre Board boat.

WRIGHT, PETER, & SONS, 6 Bowling Green, New York, N. Y.
Models of Passenger Steamships "Friesland" and "City of Paris".

SEVENTH GROUP.

Food Products.

CLASS 67.—*Cereals. Farinaceous Products with their Derivatives* (*).

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BOARD OF TRADE, Chicago, Ill.
Grain in Sacks and in Cases representing the various Grades officially established by the State Inspection of Illinois together with a Chart illustrating the extent of the Grain Business of Chicago.

BOARD OF TRADE, Minneapolis, Minnesota.
Grain, showing the different grades of quality established officially by the State.

BUTLIR, A. P., Commissioner of Agriculture for South Carolina.
Rice, the raw finished product including sixteen specimens representing the various Processes of the Milling.

COLLECTIVE EXHIBIT of Cereals prepared under the direction of the Secretary of Agriculture, Washington, D. C.

Contributors :

MORROW, G. E., Professor of Agriculture, Illinois University, Champaign, Illinois.

(*) See classification, *ante*, of Collective Exhibit of Department of Agriculture.

THORNE, Chas. E., Director Agricultural Experiment Station, Columbus, Ohio.

INGERSOLL, C. L., President State Agricultural College, Fort Collins, Colorado.

FOSTER, Luther, Professor of Agriculture, Brookings, Dakota.

FURNAS, R. W., Ex-Governor, Lincoln, Nebraska.

WHITNEY, C. C., Marshall, Min.

WHITNEY, F. I., General Passenger Agent, Saint Paul, M , & M. R. R., Saint-Paul, Minnesota.

BLACK, Gen. J. C., Washington, D. C.

SILVER, J. P., Glenville. Md.

THE A. B. CLEVELAND Co., New York.

BRETZ, J. H., Oakdale, Nebr.

GWYNN, J. R., Clinton, Mo.

HENRY, Prof., Director Agricultural Experiment Station, Madison, Wis.

VANDERHOOF, R. H., Newton, Illinois.

HAASE, A. F., Dakota City, Nebraska.

BESSEY, Prof. C. E., Lincoln, Nebraska.

NELSON, J. F., Olney. Illinois.

HIGGINS, J. P., Calhoun. Illinois.

DOWD, M. Fairchilds, Kansas City.

GABILSON, C. L., New Hampton, Iowa.

NIMO BROS., Emerson, Iowa.

UPSON, E. M., Cummings, Dakota.

GLEN COVE MANUF. CO., New York, N. Y.
Samples of " Maizena ", Grape Sugar and Glucose.

INGERSOLL, Prof. C. L., Pres. Agricultural College, Fort Collins, Colorado.
Eight large plaques with designs formed of the various Grains and Grasses grown in Colorado.

PILLSBURY, C. A., & CO., Minneapolis, Minn.
Wheat in Sacks representing the Grades officially established : Flour in its various stages of Manufacture.

SCHUMACHER, T., & CO., Akron, Ohio.
Various finished Cereal Products.

TOWNSHEND, CHAS. HERVEY, New Haven, Conn.
" Wheatine ", " Whahaba ", " Johnny Cake ", and other derivatives of Wheat, Corn and Buckwheat.

VOGT, AUGUST, Wills Point, Texas.
One bushel of white Corn.

CLASS 69.—*Fat Substances used for Food, Milk Products and Eggs.*

ARMOUR & CO., Chicago, Ill.
Lard.

CASSARD, G., & CO., Baltimore, Md.
Lard.

COTTON OIL PRODUCT CO., 80 Beaver st., New York.
Cotton Seed Oil Lard; Goldene, Toilet and Laundry Soaps. (See also class 45.)

DEPARTMENT OF AGRICULTURE, Washington, D. C., D. E. Salmon, Chief of Bureau of Animal Industry.
Butter and Cheese made in the United States, suitable for export.

DEPARTMENT OF AGRICULTURE, Washington, D. C., Dr. Thomas Taylor, Microscopist.
Two hundred and Seventy-three Microphotographs of the Crystalline Structure of Animal and Vegetable fats.

EAGLE CONDENSED MILK CO., 79 Murray st., New York City.
Condensed Milk.

ELGIN CONDENSED MILK CO., Elgin, Ill.
Condensed Milk.

GOODRICH, E. E., Santa Clara, Cal.
Olive Oil, grades of crop of 1889.

HELVETIA MILK CONDENSED CO., Highland, Ill.
Condensed Milk.

HOOPER, Geo. F., Sonoma, Cal.
Olive Oil.

KLAUBET, J. C., Philadelphia, Pa.
Samples of Oil made from the Germ of the Maize.

MICHENER, J. H., & CO., Philadelphia, Pa.
Lard.

SOUTHERN COTTON SEED OIL CO., New York, N. Y.
Refined Cotton Seed Oil. (See Class 44.)

STRICKLER BROTHERS & CO., Sterling, Illinois.
Liquid Coloring for Butter.

SWIFT & CO., Chicago, Ill.
Lard.

WETMORE, Chas. A., Livermore, Cal.
Olive Oil of California.

Class 70.—*Meats and fishes.*

ARMOUR & CO., Chicago, Ill.
Canned Meats; Salted and Packed Meats; Canned Soups; Extracts of Meat.

BROUGHAM, Geo., 68 W. Jackson st., Chicago, Ill.
Extracts of Meat, Canned Soups.

CASSARD, G., & CO., Baltimore, Md.
Dried, Salted, and Smoked Meats.

COWDREY, E. I., & CO., Boston, Mass.
Canned Meats.

CURTICE BROS., Rochester, N. Y.
Canned Meats.

FERRIS, F. A., & CO., 274 Mott. st., New York, N. Y.
Dried, Salted, and Smoked Meats.

FRANCO-AMERICAN SOUP CO., Warren st., New York, N. Y.
Canned Soups.

HUCKINS, J. H. W., & CO., 18 Waterford st., Boston, Mass.
Canned Soups.

HUMBERT, Henry, & CO., 814 Fulton st., New York, N. Y.
Extracts of Meat.

LIBBY & CO., Chicago, Ill.
Canned Meats.

MICHENER, J. H., & CO., Philadelphia, Pa.
Dried, Salted, and Smoked Meats.

MORRIS & CO., Chicago, Ill. (Fairbanks' Canning Co.)
Canned Meats.

RICHARDSON & ROBBINS, Dover, Del.
Canned Meats.

ROGERS, W. H., 419 California st., San Francisco, Cal.
Canned fresh Salmon from Columbia River and Alaska.

SWIFT & CO., Chicago, Ill.
Salted and Packed, Dried Salted and Smoked Meats.

CLASS 71. – *Vegetables and Fruits.*

ANDROUS, SAMUEL N., Pomona, California.
Raisins.

BROWN, ARTHUR, Bagdad, Santa Rosa County, Florida.
Pecan Nuts.

CALIFORNIA DRIED FRUIT ASSOCIATION, San Francisco, Cal.
Series of samples of dried Grapes.

CLAGETT, F., Upper Marlboro, Md.
Canned Sweet Corn and Lima Beans.

CLEVELAND, A. B., & CO., New York.
Twenty-nine varieties of Peas and of Beans Sweet corn, Peas and corn.

COLLECTIVE EXHIBIT of Vegetables and fruits prepared under the direction of the Secretary of Agriculture, Washington, D. C.

DIVISION OF POMOLOGY, U. S. DEPT. OF AGRICULTURE, Washington, D. C.
Series of models of citrus fruits and of orchard fruits. Collection of dried fruits.

ERIE PRESERVING CO., Buffalo, N. Y.
Canned succotash, Sweet corn and Tomatoes. Fruits and Berries.

FLORIDA STATE HORTICULTURAL SOCIETY.
Citrus Fruits.

GRIFFIN CANNING CO., Griffin, GEORGIA.
Canned Tomatoes.

HARRIS, JOSEPH, SEED CO., Rochester, N. Y.
Varieties of Beans, Peas, and Beets.

HEINZ, H. J., CO., Pittsburg, Pa.
Apple Butter, Raspberry Jam.

HOOPER, GEO. F., Sonoma, Cal.
Walnuts, " English ", grown in California. Dried prunes. Pickled olives.

KENNON, GRAY & CO., Sublett Taverne, Pa.
Canned Tomatoes and Sweet Corn.

KIMBALL, FRANK A., National City, Cal.
Citrus Fruits.

MALLORY, E. B., & CO., Baltimore, Md.
Canned Tomatoes, Corn and Peas, Peaches.

MARTIN, WAGNER & CO., Baltimore, Md.
Canned Tomatoes, Corn and Peas, Pine Apples, Peaches, Apples.

MYER, THOMAS J., & CO., Baltimore, Md.
Canned vegetables, fruits, and Berries.

NUMSEN, WILLIAM, & SONS, Baltimore, Md.
Pine Apples, Peaches, Plums and Berries. Canned vegetables.

ORESTOTT. HENRY, Placer Co., Cal.
One box Muscatel Raisins.

PERRY, F. H., & CO., Providence, R. I.
Canned Tomatoes, Asparagus, Beans and Corn.

PERRY, F. H., Providence, R. I.
Fruits and Berries.

RIXFORD, G. P., San Francisco, Cal.
Jujube Berries, Pistachio nuts.

ROGERS, W. H., 419 California st., San Francisco, Cal.
Canned fresh fruits: Apricots, Peaches, etc.

ROSA, JOHN J., Milford, Del.
Evaporated peaches.

SEARS & NICHOLL, Chillicothe, Ohio.
Twelve cans of corn. Canned peaches.

SEED DIVISION, U. S. DEPT. OF AGRICULTURE, Washington, D. C.
Miscellaneous varieties of Garden Seeds.

THOMPSON'S SEEDLESS RAISINS, California.
One box Raisins from a new grape resembling the Sultana.

WHEELER, J. H., "CHIEF EXECUTIVE OFFICER OF THE STATE VITICULTURAL COMMISSION", San Francisco, Cal.
Dried Grapes.

WINTERPORT PACKING CO., Winterport, Maine.
Canned sweet corn.

CLASS 72.—*Condiments and Stimulants; Sugar and Products of confectionery.*

COLLECTIVE EXHIBIT prepared under the direction of the Secretary of Agriculture, Washington, D. C.
Sorghum Syrup, Sorghum Heads of different varieties showing the development of the plant. Sorghum Sugar refined, etc.

CONWAY SPRINGS CO., Conway Springs, Kansas.
Sorghum Sugar Refined.

DOUGLAS SUGAR CO., Douglas, Kansas.
Sorghum Syrup. Sorghum Sugar refined.

KINNEY, S. H., Morristown, Minn.
Sorghum Syrup. Sorghum Heads of the "Early Amber" Variety cultivated at the 43° of latitude. Sorghum Sugar refined.

LUTTED, JAMES, 27 and 29 Ellicott street, Buffalo, N. Y.
Specimens of Candies and Confectionery made by hand and steam power.

MAILLARD, HENRY, W. 24th, W. 25th st., and Broadway, New York, N. Y.
About 3,000 different styles of bonbons and fancy Chocolate. Two Chocolate vases, height, 1 m. 45, weight, 450 kilogrammes. See also class 11.

MILLER, GEORGE, & SON, 610 Market street, Philadelphia, Pa.
Confectionery; American Candies.

PALISADE MANUFACTURING CO., West Hoboken, N. J.
Tournade's Kitchen Bouquet, concentrated Essence for flavoring soups, gravies, etc.

ROSS, MARY E., 104 Pearl st., New York, N. Y.
Excelsior Sauce.

WILBUR, H. O., & SON, 237 North 3rd street, Philadelphia, Pa.
Cocoa and Chocolates.

CLASS 73.—*Fermented Drinks.*

ADAMSON, RUTHERFORD, Napa Co., Cal.
Wines, assorted, from his vineyard at Napa.

AMERICAN WINE CO., St. Louis, Mo.
Wines of the Islands of Lake Erie, in Ohio.

BEADLESTON & WOERZ, 291 W. 10th street, New York, N. Y.
Lager Beer, Ale and Porter.

BECK, ADOLPHE, San Francisco, Cal.
Wines: Sauvignon, Cabernet, Port and Burgundy.

BEN LOMOND WINE CO., Mr. Wilkens, Agt., Santa Cruz Co., Cal.
White wine, vintage of 1886.

BERGNER & ENGEL BREWING CO., Philadelphia, Pa.
Malt Liquors.

BERINGER BROS., St. Helena, Napa Co., Cal.
Wines and brandies.

BOLEN & BYRNE, 416 to 423 East 54th street, New York.
Golden Russet Champagne Cider, Mineral waters, Ginger Ale and other Aerated beverages.

BRUN, A., & CO., Nouveau Medoc, Oakville, Napa Co., Cal.
Wines: Riesling, Catawba, Carignane, Zinfandel.

CALIFORNIA STATE VITICULTURAL COMMISSION "EXPERIMENTAL CELLAR", San Francisco, Cal.
Five cases assorted wines of California, various brands and vintages.

CHAUCHE, A. G., Mont Rouge Vineyards, Livermoer, Alameda Co., Cal.
Wine from a blend of Sauvignon Blanc, Semillion and Muscatel de Bordelais.

CRABB, H. W., Tokalon Vineyard, Oakville, Napa Co., Cal.
Three cases wine, assorted, Sauterne, Tokay, Gutedel, Muscatel, Chambertin, etc.

CRAFT, N.W., Shore, N. C.
Wine.

CRAIG, W. O., Sonoma, Cal.
Wine; a blend of Riesling and Chasselas, vintage of 1885.

DADANT, CHAS., & SON, Hamilton, Ill.
Wine and Vinegar from honey.

DE TURK, J., Santa-Rosa, Sonoma Co., Cal.
Four cases of assorted wines: Riesling, Zinfandel, Sherry, Brandy.

EDGE HILL WINE CO., St. Helena, California.
Wines: Cabinet Riesling, Golden Chasselas, Zinfandel, Burgundy, and Brandy.

EWER & ATKINSON, Rutherford, Napa Co., Cal.
Wines: Sauvignon vert, Riesling, Zinfandel, Burgundy, Lenoir.

FIBLE & CRABB, Eminence, Ky; and Boston, Mass.
Bottled Whiskey.

FLORIDA WINE CO., Clay Springs, Florida.
Orange wine.

GAST WINE CO., St. Louis, Mo.
Wines: Norton, Iowa, Taylor, Riesling, etc.

GREENBAUM, ALFRED, San Francisco, Cal.
Three cases wines, assorted, from vineyards in a mountainous region.

GUNDLACH, J., & CO., San Francisco, California.
Ten cases assorted wines from their Rhinefarm, Sonoma, Vineyards.

HAGNER, HENRY, Cedar Knoll Vineyards, Napa Co., Cal.
Wines and Brandy: Riesling, Zinfandel, Port Angelica, Malaga, etc.

HARASZTHY, ARPAD & CO., San Francisco, Cal.
Eclipse extra dry: Eclipse brut; Riesling, Gutedel, Zinfandel, etc. Mostly from Orleans vineyards, Yolo Co.

HILGARD, PROF. W. E., University of California, Berkeley, Contributor.
Condensed Must Samples.

HOLBROOK, J., & SONS, South Sherborn, Mass.
Ciders, Champagnes, etc.

HOOPER, GEO. F., Sobre Vista Vineyard, Sonoma, California.
Wines: Riesling, Zinfandel, Muscatel, and Brandy.

HUME & CO., 807 Market Space, Pennsylvania Ave., Washington, D. C.
Old Stag Whiskey and old Apple Brandy.

HUSMAN, PROF. GEORGE, Napa City, California.
Wines of California.

KING, CHARLES, St. Helena, Napa Co., Cal.
Case of wines, assorted, including Mondense, Sweet Muscatel, and Brandy.

KOHLER & FROHLING, San Francisco, Cal.
Eight cases Wine and Brandy, assorted, from their Glen Ellen vineyards.

KUNZ, JOSEPH, New York City.
Beer.

MATTHEWS, J., Lisbon Winery, Napa, Cal.
Case of selected wines: Riesling, Zinfandel, Sherry.

MEGLIAVALLA, G., Napa, Cal.
Claret wine made in Napa Valley.

MONTICELLO WINE CO., Charlottesville, Va.
Wines: Cythiana, Norton, Clinton, Ives, etc.

MOORE, & SINNOTT. Philadelphia, Pa.
Gibsons pure Rye and Barley Malt Whiskey.

MOTT, S. R. & T. C. 118 Warren st., New York, N. Y.
Sweet and Golden Russet Carbonated Cider.

MUNSON, J. V., Denison, Texas.
Collection of Native Vines.

NAPA VALLEY WINE CO., Cellars at Napa, Commercial business at San Francisco, Cal.
Five cases wines: Carignane, Burgundy, Cabinet Sauvignon, Gutedel, Tokay and Brandy.

NEW URBANA WINE CO., Hammondsport, N. Y.
Gold Seal, Port, Sweet and Dry Catawba, etc., etc.

NOUVEAU CLOS VOUGEOT VINEYARD, V. Courtois, Manager, St. Helena, Napa Co., Cal.
Three cases wines assorted brands and vintages.

OSBORN, JOHN, SON & CO., New York, Philadelphia, Montreal.
"Antediluvian" Pure Rye Whiskey.

PEARSON, ALEX. M., Vineland, N. J.
Burgundy and Ironclad.

PLEASANT VALLEY WINE CO., Rheims, Steuben Co., N. Y.
Western Extra Dry, Delaware, Catawba.

PURITY WINE CO., San Francisco, Cal.
Red and white wines treated by an electric process.

RUSSOW, ADOLPH, Proffits P. O., Va.
Wine, "Norton".

RYCKMAN, G. F., BROCTON WINE CO., Brocton, N. Y.
Imperial Champagne, Brocton Port, Catawba, Niagara, etc.

SCHILLING, C., & CO., San Francisco, Cal.
Five cases wine; Cabernet, Sauvignon, Burgundy, Zinfandel, Semillon and others.

SCHRAM, JACOB, St. Helena, Cal.
Wines from his mountain vineyards: Hock, Riesling and Burgundy.

SONOMA WINE & BRANDY CO., 1 Front st., New York City.
Specimens from cellars of Geo. West, Stockton, Cal.

STONE HILL WINE CO, Hermann, Mo.
Catawba, Riesling, Rulander, Concord, Norton, etc.

TOKALON VINEYARDS, H. W., CRABB Proprietor, Oakville, Cal.
Claret, Zinfandel, Chambertin, Burgundy, Riesling, etc, etc.

VOGT, AUGUST, Willow Point, Texas.
12 Bottles of Native Wine of Texas.

UNIVERSITY OF CALIFORNIA, EXPERIMENTAL CELLAR, BERKELEY CO., Cal.
Wines assorted, vintage of 1888.

WETMORE, CHARLES A., Livermore, Alameda Co., Cal.
A Selection of Table wines: Medoc, Sauterne, etc., from the Cresta Blanca vineyard.

WINEBERGER, Mrs. J. C., St. Helena, Cal.
Wines, Sherries and Brandy, assorted

EIGHTH GROUP.

Agriculture, Cultivation of the Vine and Fish Culture.

CLASS 73 *Bis.—Agronomy. Agricultural Statistics.*

—

AGRICULTURAL COLLEGE, STATE OF CALIFORNIA.
Books and Reports.

CALIFORNIA STATE BOARD OF HORTICULTURE.
Volumes of Reports.

DEPARTMENT OF AGRICULTURE, Washington, D. C., J. R. Dodge, Statistician.
Series of Maps and Charts with graphic illustrations of the Statistics of Agriculture of the United States.

DEPARTMENT OF AGRICULTURE, Washington, D. C., B. T. Galloway, Division of Vegetable Pathology.
Maps and drawings illustrating the Fungus diseases of plants : their distribution and treatment.

DEPARTMENT OF AGRICULTURE, Washington, D. C., D. E. Salmon, Bureau of Animal Industry,

Charts showing the production of animal food and prices in the United States, also the distribution of cattle and hogs and the comparative composition of American and European beef.

DEPARTMENT OF AGRICULTURE, Washington, D. C., William Saunders, Horticulturist.
Plan of Garden and Grounds of the Dept. of Agriculture.

KANSAS, STATE OF.
Report of the Commissioner of Agriculture. Official pamphlets descriptive of the Resources of the State.

CLASS 73 *Ter.—Organization, Methods and Appliances of Agricultural Instruction.*

—

DEPARTMENT OF AGRICULTURE, Washington, D. C., Prof. W. O. Atwater, Chief of Division of Experimental Stations.
Charts, Plans and Photographs illustrating Report on Agricultural Colleges and Experiment stations.

RILEY, C. V., Washington, D. C.
Series of reports by himself on economic entomology. Charts, plates, and wood-engravings.

WARD, DR. R. H., Troy, N. Y.
Text book entitled "Plant Organization", on the structure and morphology of plants.

CLASS 74.—*Specimens of Farm Improvements and Agricultural Works.*

—

DEPARTMENT OF AGRICULTURE, Washington, D. C., D. E. Salmon, Chief of Bureau of Animal Industry.
Models showing construction and operation of a Creamery, a Silo and a Cold Storage Refrigerator. (Class 50.)

ENTERPRISE MANUFACTURING CO., Columbiana, Ohio.
Feed Grinders.

HOWE, LEROY.
Improved Mat for Horse Stalls.

LIVE STOCK EXPRESS CO., Chicago, Ill.
Model of car for transporting dressed beef (Class 61) (*).

MARVIN DRENCHING BIT CO., H. Oateman, President, 97 Chambers st., New York City.
Patent Horse drenching bit with detachable reservoir and graduated medicine glass.

CLASS 75.—*Vine Cultivation.*

—

CALIFORNIA STATE BOARD OF VITICULTURE.
Volumes of Reports.

DEPARTMENT OF AGRICULTURE, Washington, D. C.
A series of views, photographic, illustrative of the industry of the vine.

(*) See Addenda.

RILEY, C. V., Washington, D. C.
Specimens and Illustrations of Phylloxera work.

CLASS 76. – *Useful and injurious Insects.*

APICULTURE: Collective Exhibition under the direction of the Secretary of Agriculture, Washington, D. C.

Contributors:

ARMSTRONG, E. S., Jerseyville, Illinois.
BARNES, W. F. & JOHN, MFG. Co., Rockford, Illinois.
BITTENBENDER, J. W., Knoxville, Iowa.
DADANT, CHARLES, & SON, Hamilton, Illinois.
DEMAREE, G. W., Christiansburg, Kentucky.
EATON, FRANK A., Bluffton, Ohio.
FALCONER, W. T., Jamestown, N. Y.
HEDDON, JAMES, Dowagiac, Michigan.
HUBBARD, J. K., Fort Wayne, Indiana.
KNICKERBOCKER, GEORGE H., Pine Plains, N. Y.
LEWIS, G. B., & Co., Watertown, Wisconsin.
MUTH, C. F., & SON, Cincinnati, Ohio.
REESE, C. H., Winchester, N. Y.
ROOT, A. I., Medina, Ohio.
TINKER, G. L., M. D., New Philadelphia, Ohio.
VAN DEUSEN, JAMES, H., & SONS, Sprout Brook, N. Y.
WAVEMAN & CROCKER, Lockport, N. Y.

ALLEN, W. B., Orleans, N. Y.
Bare-rose sprinkler with stop valve.

BELCHER, B. & J. W., Chicopee Falls, Mass.
Etna dusting gun.

BUREAU OF ENTOMOLOGY, DEPT. OF AGRICULTURE, Washington, D. C.
Rotary Blowers of Poison: Brush Throwers. Powder bellows, guns, etc.
Sixty-four samples of Cocoons produced in The United States.

CALIFORNIA BELLOWS MANUF. CO., San Francisco, Cal.
Insect powder blowers.

COLLECTIVE EXHIBIT of Nozzles for Spraying Insecticides. Prepared under the direction of the Secretary of Agriculture, Washington.

Contributors:

Foos, L. B., Boston, Mass.
Metcalf, T. O., & Co., Boston.
Rumsey & Co., Seneca Falls, N. Y.
Vose, W. T., Newton, Mass.
Fox, S. H., St. Louis, Mo.
Fowler, J. H., Oakland, Cal.
Shier, John, Ellinger, Texas.
Melcher, J. C., Black Jack Springs, Texas.
Ruhmann, J. P., Schulenburg, Texas.
Helmecke, F. A., Round Top, Texas.
Pinter, F. T., Schulenburg, Texas.
Fifield, C. W., Lowell, Mass.
Killam, J. W., Lakenood, N. J.
Campbell, John, Selma, Ala.
Nixon, A. H., Dayton, Ohio.
Lewis, P. C., Catskill, N. Y.
Woodin & Little, San Francisco, Cal.
National Manufacturing Co., Boston, Mass.
Field & Force Pump Co., Lockport, N. Y.

HOTZ, N.
CLARK, W. M., Newark, N. J.
GRAY, J. W., Hartford, Conn.
CROFTON, JOHN, Walnut Grove, Cal.
GREENE, L. D., Walnut Grove, Cal.
WOODIN & LITTLE, San Francisco, Cal.
RILEY, DR. C. V., Washington, D. C.

DADANT, CHARLES, & SON., Hamilton, Ill.
Dadant's Uncapping Can with comb-rack and cloth honey strainer and wire bottom waste-pan and honey reservoir with honey gate.

DEAKIN, ROBT. J., & CO., Philadelphia, Pa.
Syringes for application of insecticides.

DOUGLAS, W. & B., Middletown, Conn.
Double acting Hydronette.

GENERAL EXHIBIT of Economic Entomology under the direction of the Secretary of Agriculture, Washington, Dr. C. V. Riley, Entomologist, Dept. of Agriculture.

HAMMOND, B. T., Fishkill, N. Y.
Insect powder dusters and blowers.

KEMP, W. C. R., Orleans, Illinois.
Apparatus for smoking bees.

LEWIS, P. C., Catskill, N. Y.
Bran spray syringe with rubber piston head for application of insecticides.

MUTH, C. F., & SON, Cincinnati, Ohio.
Apparatus for the extraction of wax.

RILEY, DR. C. V., ENTOMOLOGIST, DEP'T OFAGRICULTURE, Washington, D. C.
1. Insects injurious and beneficial to cultivated plants including forest trees.
2. Insecticides.
3. The Riley Nozzle in various forms and modifications, showing development.

RUMSEY & CO., Seneca Falls, N. Y.
Double acting Hydronette.

SCHIER, JOHN, Ellinger, Texas.
Insecticide spray pump with return drip device.

SERICICULTURE: Collective Exhibition under the direction of C. V. Riley, and M. Philip Walker Department of Agriculture, Washington, D. C.
Silk worms, cocoons, and apparatus.

TOWNSEND, G. W., Greenville, N. Y.
Knapsack poison distributor with stop-valve nozzle-pipe and Agitator.

WHITMAN, J. A., Providence, R. I.
Single acting spray pump.

WOODASON, T. K., Chicago, Ill.
Insect powder Blowers and Atomizers.

NINTH GROUP.

Horticulture.

Class 78.—*Conservatories and Horticultural Apparatus.*

—

DIVISION OF ENTOMOLOGY, Dept. of Agriculture, Washington, D. C.
Collective Exhibit of Pumps, Blowers, etc.

Contributors:

Deakin & Co., Philadelphia, Pa.
Douglas, W. & B., Middletown, Conn.
Evenden, J. G., Chicago, Ill.
Heissinger, Frank H., 196 Broadway, New York.
Johnson, W. J., Newton, Mass.
Lewis, P. C., Catskill, N. Y.
National manuf. Co., Boston, Mass.
New England Butt Co., Providence, R. I.
Nixon, A. H., Dayton, Ohio.
Prouty, A. B., Worcester, Mass.
Rumsey, & Co., Seneca Falls, N. Y.
Vose, W. T., Newtonville, Mass.

HEISSINGER, FRANK, H., 196 Broadway, New York.
Designs for Landscape Gardening, Conservatories, etc.

CLASS 81.—*Fruits and Fruit trees.*

DIVISION OF POMOLOGY, U. S. DEPT. OF AGRICULTURE, Washington, D. C.
Photographs of Orchard and Fruit Farm Scenes

CLASS 82.—*Seeds and Saplings of Forest Species.*

SARGENT, CHARLES S., Director of the Arnold Arboretum, Brookline, Mass.
Plan of the Arnold Arboretum, Jamaica Plains, Mass.

ADDENDA

CLASS 9.

Bureau of Engraving and Printing, Washington, D. C.
Specimens of engraving and printing of United States money bonds, etc.

Kansas, State of.
Official Atlas of State of Kansas.

Lowell, John A., & Co., 147 Franklin st., Boston, Mass.
Specimens of printing from engraved steel plates.

Poor, H. V. & H. W., New York City.
Poor's " Manual of Railroads ", 1886, 1887, 1888.
Poor's " Directory of Railway Officials ", 1887, 1888, 1889.

CLASS 10.

Brown Paper Co. (The), Adams, Mass.
Linen, ledger and record papers.

Rogers Stamp Co. (The), Providence, R. I.
Stamp with clock movement indicating the exact moment of the use of instrument.

Adirondack Pulp Co. (The), Troy, N. Y.
Fibrous, mineral and pure talc in different stages of manufacture from talc to the finished product called Mineral fibre pulp.

CLASS 14.

Amour & Co., Chicago, Illinois.
Extract of meat.

CLASS 26.

Seth Thomas Clock Co., Thomaston, Conn., and 20 Murray st., N. Y.
Clocks of precision.

CLASS 33.

Department of Agriculture, Washington, D. C.
Raw silk reeled in the Experimental filature at Washington. artistically arranged to show the arms of the United States.
Raw silk reeled in the United States from worms fed on *Maclura aurantiaca*.

CLASS 36.

War Department, Washington, D. C., Quatermaster General's Department, U. S. Army.
Lay figures illustrating the historic uniforms of the American Army.

Group a.

1. Field officer, Infantry Reg't, 1776.
2. Officer, Washington guards, 1776.
3. Rawlings Maryland Rifleman, 1776.
4. Infantry soldier, Pennsylvania Reg't, 1776.
5. Artillery soldier, Continental Army, 1777.
6. Morgan Virginia Riflemen, 1776.

Group b.

7. Brigadier General, Continental Army, 1780.
8. Aids-de-camp, » » 1780.
9. Light dragoon, » » 1782.
10. Infantry soldier, » » 1782.

Group c.

11. Flying Dragoon, 1812
12. Artillery soldier, 1812.
13. Infantry soldier, 1812.

CLASS 41.

Oh Joe Mine, White Pine County, Nevada, Hon. Thos. Wren and Jos. Grandelmyer.
Lead, Copper, Silver and Gold Ore.

Imperial Mine, White Pine County, Nevada, Hon. Thos. Wren and Jos Grandelmyer
Lead, Copper, Silver and Gold Ore.

CLASS 42.

Hurlburt Brothers, 539 Brannan st., San Francisco, Cal.
California Redwood.

Lincoln Mill Co, Eureka, Cal.
California Wood.

CLASS 43.

Newland, Henry A., & Co., Detroit, Mich.
Furs.

Davidson, H. E., 45 boulevard de Latour-Maubourg, Paris.
Fishes from British Channel mounted according to the method devised by Dr. Davidson, of Boston, and patented under the title "Davidson's Ichthytaxidermy".

Jackson, Arthur C., Sanford, Florida.
Long-staple Sea Island Cotton, etc.

Dutton, H. F., & Co., Gainsville, Florida.
Sea Island Cotton: in bale and samples and seed.

CLASS 45.

Burroughs, Wellcome & Co., 82 Fulton st., New York.
Hazeline: A preparation of Witch Hazel.

CLASS 49.

Magnolia Mines, Ashley River, South Carolina, C. C. Pinckney.
Land Phosphate Rock.

Coosaw Mines, Coosaw River, South Carolina.
River Phosphate Rock.

CLASS 52.

Slater, Frank, Fitchburg, Mass.
The Slater Pantograph attatched to the Brown engine.

CLASS 56.

Mackay & Copeland Lasting Machine Co., Société anonyme pour l'exploitation des brevets, Agents.
Mackay Lasting Machine. Magnetic Lasting Machine. Channel Opening Machine. Sole Tacking Machine. Toe Forming Machine.

Union Button Sewing Machine Co., Boston, Mass.
Union Button Sewing Machine for use in clothing and underwear.

CLASS 63.

Whitehouse, Frederic Cope, New York.
A relief map of the Raiyan and Fayoum depressions in Middle Egypt, from original Surveys — with complete details of the ancient canal — the Bahr Jusut or River of Joseph and the New Raiyan canal and Reservoir.

CLASS 64.

National Soldiers' Home of the United States, General W. B. Franklin, President, Hartford, Conn.
Plan of Hospital Building at Soldiers' Home, near Hampton, Virginia.

CLASS 67.

Jackson, Arthur C., Sanford, Florida.
Cereal products of Florida. General collection of agricultural products.

Street, S. H., & Co., New Haven, Conn.
Cereal products: " Johnny Cake " flour, etc.

CLASS 72.

Preserve Co (The), San Augustine, Fla.
Preserved Guava, Guava Jelly, Marmalade, and preserve d Figs

Fawcett, Alice K., Ormond, Fla.
Guava Jelly.

Bacon, Mrs. C. A., Ormond, Fla.
Guava lelly and Preserves.

CLASS 9.

Brooklyn Library Brooklyn, N. Y.
Catalogue of Library (Edition de luxe).

CLASS 12.

Rowland, Prof., Johns Hopkins University, Baltimore, Md.
Map of the Solar Spectrum.

SOCIAL ECONOMY SECTION

(*Esplanade des Invalides*).

Department of Labor, Washington, D. C., Carroll D. Wright, Commissioner.
Reports and Publications of the National and State Bureaus of Labor.

Gilman, Rev. N. C.
Volume entitled " Profit Sharing ".

Knights of Labor of the United States.
Reports, Proceedings, Banners, etc.

Mutual Reserve Fund Life Association, E. B. Harper. Pres., Potter Building, New York, S. D. Tyng, Gen. Director, Paris.
Charts, Circulars, and Photographs. (Also in class 9.)

Universal Peace Union, Philadelphia, Pa., Alfred Love, Manager.
Pamphlets, Illustrations, etc.

ALPHABETICAL INDEX

OF EXHIBITORS

ABBREVIATIONS

Ind. Sec. : Industrial Section.
Fine Arts : Fine Arts Section.
Lib. Arts : Liberal Arts Section.
Mach. Pal. : Machinery Palace.
RR. Sect : Railroad section in Machinery Palace.
Agr. Gal. : Agricultural Gallery, quai d'Orsay.

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Moore, H. Humphrey.	*Fine Arts.*	15
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Muscatine Commercial College, Muscatine, Iowa.	*Lib. Arts.*	49
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Myer, Thomas J., & Co.	*Agr. Gal.*	203
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Mystic Valley Institute, Mystic Bridge, Conn.	*Lib. Arts.*	40
Napa Valley Wine Co.	*Agr. Gal.*	209
Nassau Manuf., Co	*Lib. Arts.*	112
National Academy of Science.	*Lib. Arts.*	102
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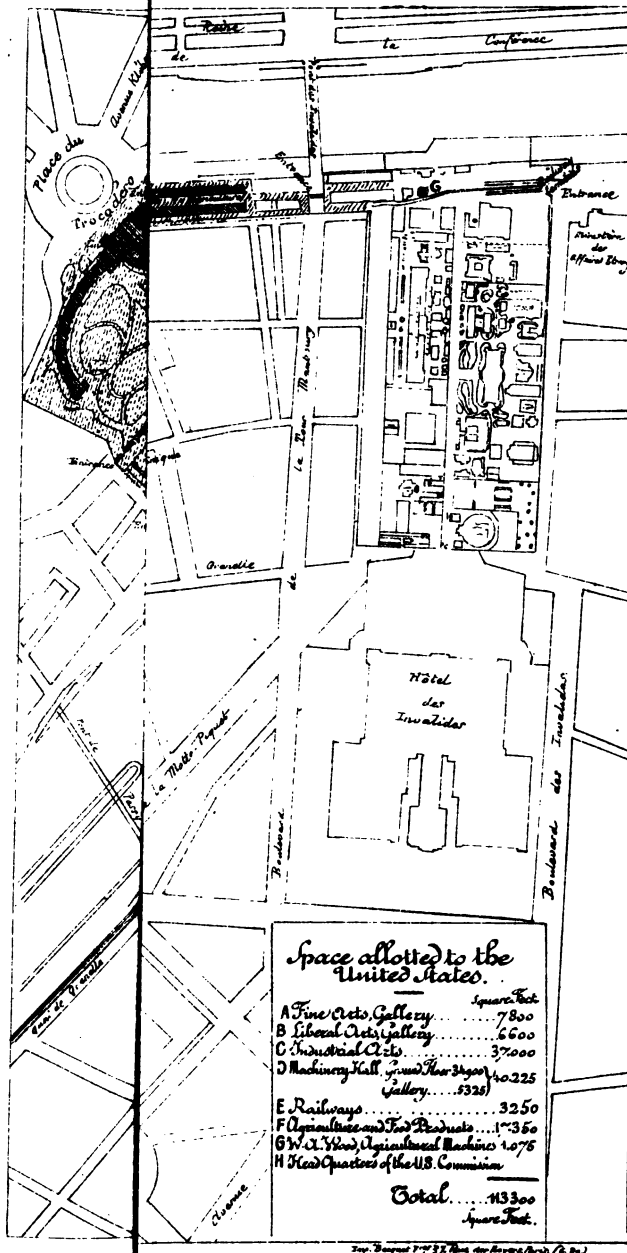

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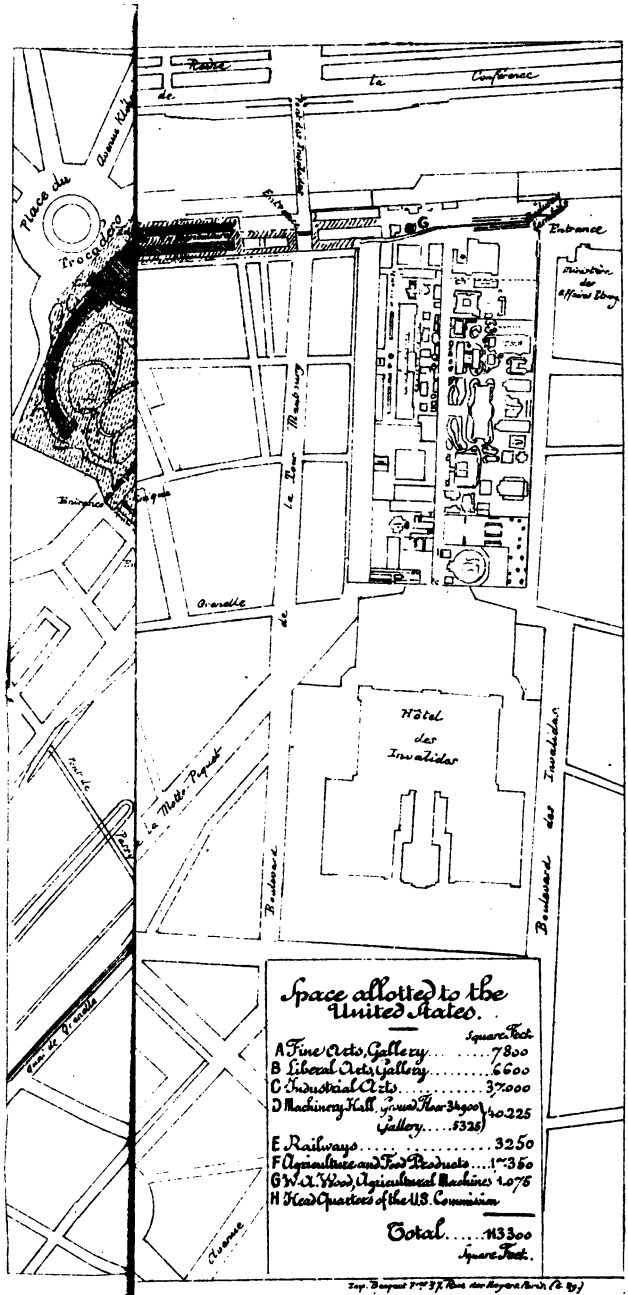

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